

\$1,780,056,197 Government National Mortgage Association

GINNIE MAE®

Guaranteed REMIC Pass-Through Securities and MX Securities Ginnie Mae REMIC Trust 2020-032

The Securities

The Trust will issue the Classes of Securities listed on the front cover of this offering circular supplement.

The Ginnie Mae Guaranty

Ginnie Mae will guarantee the timely payment of principal and interest on the securities. The Ginnie Mae Guaranty is backed by the full faith and credit of the United States of America.

The Trust and its Assets

The Trust will own (1) Ginnie Mae Certificates and (2) certain previously issued certificates.

The securities may not be suitable investments for you. You should consider carefully the risks of investing in them.

See “Risk Factors” beginning on page S-12 which highlights some of these risks.

The Sponsor and the Co-Sponsor will offer the securities from time to time in negotiated transactions at varying prices. We expect the closing date to be March 30, 2020.

You should read the Base Offering Circular as well as this Supplement.

The securities are exempt from registration under the Securities Act of 1933 and are “exempt securities” under the Securities Exchange Act of 1934.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 1						
IK(1)	\$ 4,637,857	3.50%	NTL(PAC)	FIX/IO	38382DMX4	August 2048
KA(1)	32,465,000	2.50	PAC	FIX	38382DMY2	August 2048
KS	8,149,229	3.50	SUP	FIX	38382DMZ9	March 2050
KW(1)	4,445,000	3.00	PAC	FIX	38382DNA3	March 2050
KY(1)	5,272,857	3.50	NTL(PAC)	FIX/IO	38382DNB1	March 2050
Security Group 2						
EC(1)	110,841,857	2.50	SC/PT	FIX	38382DNC9	January 2050
Security Group 3						
JE	66,500,000	3.00	PAC/AD	FIX	38382DND7	July 2049
JG	3,500,000	3.00	PAC/AD	FIX	38382DNE5	March 2050
JZ	14,425,000	3.00	SUP	FIX/Z	38382DNF2	March 2050
Security Group 4						
LA(1)	18,532,122	2.50	SC/PT	FIX	38382DNG0	December 2049
Security Group 5						
DC(1)	41,856,000	2.50	PAC/AD	FIX	38382DNH8	June 2049
DE(1)	2,672,000	2.50	PAC/AD	FIX	38382DNJ4	March 2050
DI(1)	5,400,000	3.00	NTL(SEQ)	FIX/IO	38382DNK1	June 2042
DY(1)	3,600,000	3.00	NTL(SEQ)	FIX/IO	38382DNL9	March 2050
ZD	9,472,000	2.50	SUP	FIX/Z	38382DNM7	March 2050
Security Group 6						
A(1)	38,273,159	1.75	PT	FIX	38382DNN5	March 2050
B(1)	100,660,000	2.50	PAC/AD	FIX	38382DNP0	November 2047
FA(1)	22,326,009	(5)	PT	FLT	38382DNQ8	March 2050
FB(1)	46,592,178	(5)	PT	FLT	38382DNR6	March 2050
FG(1)	36,621,359	(5)	PT	FLT	38382DNS4	March 2050
G(1)	62,779,473	1.75	PT	FIX	38382DNT2	March 2050
GU(1)	8,696,000	2.50	PAC/AD	FIX	38382DNU9	December 2048
GW(1)	5,906,000	2.50	PAC/AD	FIX	38382DNV7	August 2049
GY	5,522,000	2.50	PAC/AD	FIX	38382DNW5	March 2050
GZ	18,992,537	2.50	SUP	FIX/Z	38382DNX3	March 2050
SA(1)	22,326,009	(5)	NTL(PT)	INV/IO	38382DNY1	March 2050
SB(1)	46,592,178	(5)	NTL(PT)	INV/IO	38382DNZ8	March 2050
SG	36,621,359	(5)	NTL(PT)	INV/IO	38382DPA1	March 2050
Security Group 7						
AB	11,836,000	3.00	PAC/AD	FIX	38382DPB9	July 2049
AC	623,000	3.00	PAC/AD	FIX	38382DPC7	March 2050
ZA	2,541,000	3.00	SUP	FIX/Z	38382DPD5	March 2050
Security Group 8						
FH	105,035,671	(5)	PT	FLT	38382DPE3	March 2050
HA	68,150,836	2.00	PT	FIX	38382DYH6	March 2050
HD	1,000,000	2.00	SUP/AD	FIX	38382DYY2	March 2050
HE	1,000,000	2.00	SUP/AD	FIX	38382DYK9	March 2050
HG	1,000,000	2.00	SUP/AD	FIX	38382DYL7	March 2050
HJ	1,955,187	2.00	SCH	FIX	38382DYM5	March 2050
HK	1,928,648	2.00	SUP/AD	FIX	38382DYN3	March 2050
HM	30,000,000	2.00	PAC	FIX	38382DYP8	March 2050
HZ	1,000	2.00	SUP	FIX/Z	38382DYQ6	March 2050
SH	105,035,671	(5)	NTL(PT)	INV/IO	38382DPG8	March 2050
Security Group 9						
IA	41,484,411	(5)	NTL(SC/PT)	WAC/IO/DLY	38382DPH6	March 2047
Security Group 10						
FI(1)	16,428,571	3.50	NTL(PT)	FIX/IO	38382DPJ2	March 2050
IF(1)	51,428,571	3.50	NTL(PT)	FIX/IO	38382DPK9	March 2050
UG	50,000,000	2.35	PT	FIX	38382DPL7	March 2050
UK	150,000,000	2.30	PT	FIX	38382DPM5	March 2050
UL	50,000,000	3.00	PT	FIX	38382DPN3	March 2050
WI(1)	7,142,857	3.50	NTL(PT)	FIX/IO	38382DPP8	March 2050
Security Group 11						
IQ(1)	41,842,527	3.00	NTL(PT)	FIX/IO	38382DPQ6	March 2050
QI(1)	40,000,000	3.00	NTL(PT)	FIX/IO	38382DPR4	March 2050
UH	150,000,000	2.20	PT	FIX	38382DPS2	March 2050
UJ	147,679,509	2.15	PT	FIX	38382DPT0	March 2050

(Cover continued on next page)

Wells Fargo Securities

Tribal Capital Markets

The date of this Offering Circular Supplement is March 24, 2020.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 12						
IW	\$ 18,761,901	3.00%	NTL(PT)	FIX/IO	38382DPU7	March 2050
WA	100,000,000	2.50	SEQ/AD	FIX	38382DPV5	May 2046
WB	10,000,000	3.00	PAC/AD	FIX	38382DPW3	February 2050
WY	114,693	3.00	PAC/AD	FIX	38382DPX1	March 2050
WZ	12,571,410	2.50	SEQ	FIX/Z	38382DPY9	March 2050
ZW	1,512,602	3.00	SUP	FIX/Z	38382DPZ6	March 2050
Security Group 13						
IM	34,885,714	3.50	NTL(PT)	FIX/IO	38382DQA0	March 2050
MA	75,000,000	2.00	SEQ	FIX	38382DQB8	November 2048
MY	6,400,000	2.00	SEQ	FIX	38382DQC6	March 2050
Security Group 14						
CA(1)	65,894,000	4.50	PAC/AD	FIX	38382DQD4	March 2050
CZ	1,000	4.50	PAC/AD	FIX/Z	38382DQE2	March 2050
ZC	26,584,718	4.50	SUP	FIX/Z	38382DQF9	March 2050
Security Group 15						
UM	50,000,000	2.50	PT	FIX	38382DQG7	March 2050
Residual						
RR	0	0.00	NPR	NPR	38382DQH5	March 2050

- (1) These Securities may be exchanged for MX Securities described in Schedule I to this Supplement.
- (2) Subject to increase as described under “Increase in Size” in this Supplement. The amount shown for each Notional Class (indicated by “NTL” under Principal Type) is its original Class Notional Balance and does not represent principal that will be paid.
- (3) As defined under “Class Types” in Appendix I to the Base Offering Circular. The Class Notional Balance of each Notional Class will be reduced as shown under “Terms Sheet — Notional Classes” in this Supplement.
- (4) See “Yield, Maturity and Prepayment Considerations — Final Distribution Date” in this Supplement.
- (5) See “Terms Sheet — Interest Rates” in this Supplement.

AVAILABLE INFORMATION

You should purchase the securities only if you have read and understood the following documents:

- this Offering Circular Supplement (this “Supplement”),
- the Base Offering Circular and
- in the case of the Group 2, 4 and 9 securities, each disclosure document relating to the Underlying Certificates (the “Underlying Certificate Disclosure Documents”).

The Base Offering Circular and the Underlying Certificate Disclosure Documents are available on Ginnie Mae’s website located at <http://www.ginniemae.gov> (“ginniemae.gov”).

If you do not have access to the internet, call BNY Mellon, which will act as information agent for the Trust, at (800) 234-GNMA, to order copies of the Base Offering Circular. In addition, you can obtain copies of any other document listed above by contacting BNY Mellon at the telephone number listed above.

Please consult the standard abbreviations of Class Types included in the Base Offering Circular as Appendix I and the glossary included in the Base Offering Circular as Appendix II for definitions of capitalized terms.

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TERMS SHEET

This terms sheet contains selected information for quick reference only. You should read this Supplement, particularly “Risk Factors,” and each of the other documents listed under “Available Information.”

Sponsor: Wells Fargo Bank, N.A.

Co-Sponsor: Tribal Capital Markets, LLC

Trustee: U.S. Bank National Association

Tax Administrator: The Trustee

Closing Date: March 30, 2020

Distribution Dates: For the Group 13 Securities, the 16th day of each month or, if the 16th day is not a Business Day, the first Business Day thereafter, commencing in April 2020. For the Group 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 and 15 Securities, the 20th day of each month or, if the 20th day is not a Business Day, the first Business Day thereafter, commencing in April 2020.

Trust Assets:

<u>Trust Asset Group or Subgroup⁽²⁾</u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	3.5%	30
2	Underlying Certificate	(1)	(1)
3	Ginnie Mae II	3.0%	30
4	Underlying Certificates	(1)	(1)
5	Ginnie Mae II	3.0%	30
6A	Ginnie Mae II	3.5%	30
6B	Ginnie Mae II	3.5%	30
6C	Ginnie Mae II	3.5%	30
7	Ginnie Mae II	3.0%	30
8	Ginnie Mae II	4.0%	30
9	Underlying Certificates	(1)	(1)
10A	Ginnie Mae II	3.5%	30
10B	Ginnie Mae II	3.5%	30
10C	Ginnie Mae II	3.5%	30
11A	Ginnie Mae II	3.0%	30
11B	Ginnie Mae II	3.0%	30
12	Ginnie Mae II	3.0%	30
13	Ginnie Mae I	3.5%	30
14	Ginnie Mae II	4.5%	30
15	Ginnie Mae II	2.5%	30

⁽¹⁾ Certain information regarding the Underlying Certificates is set forth in Exhibit A to this Supplement.

⁽²⁾ The Group 6, 10 and 11 Trust Assets consist of the enumerated subgroups (each, a “Subgroup”).

Security Groups: This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Payments on each Group will be based solely on payments on the Trust Asset Group with the same numerical designation.

Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets⁽¹⁾:

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate⁽²⁾</u>
Group 1 Trust Assets			
\$45,059,229	358	2	4.047%
Group 3 Trust Assets			
\$84,425,000 ⁽³⁾	357	3	3.460%
Group 5 Trust Assets			
\$54,000,000 ⁽³⁾	358	1	3.457%
Subgroup 6A Trust Assets			
\$60,599,168	358	1	3.920%
Subgroup 6B Trust Assets			
\$99,400,832	358	1	3.920%
Subgroup 6C Trust Assets			
\$186,368,715	357	1	3.938%
Group 7 Trust Assets			
\$15,000,000 ⁽³⁾	358	1	3.439%
Group 8 Trust Assets			
\$210,071,342	358	2	4.445%
Subgroup 10A Trust Assets			
\$50,000,000	355	1	4.000%
Subgroup 10B Trust Assets			
\$150,000,000	356	2	3.990%
Subgroup 10C Trust Assets			
\$50,000,000	355	4	3.980%
Subgroup 11A Trust Assets			
\$150,000,000	352	1	3.510%
Subgroup 11B Trust Assets			
\$147,679,509	355	2	3.470%
Group 12 Trust Assets			
\$124,198,705 ⁽³⁾	358	1	3.463%
Group 13 Trust Assets			
\$81,400,000	275	77	4.000%
Group 14 Trust Assets			
\$92,479,718	354	4	4.960%
Group 15 Trust Assets			
\$50,000,000	356	2	3.057%

⁽¹⁾ As of March 1, 2020.

⁽²⁾ The Mortgage Loans underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 and 15 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

⁽³⁾ More than 10% of the Mortgage Loans underlying the Group 3, 5, 7 and 12 Trust Assets may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.

The actual remaining terms to maturity, loan ages and, in the case of the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 and 15 Trust Assets, Mortgage Rates of many of the Mortgage Loans underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets will differ from the weighted averages shown above, perhaps significantly. See “The Trust Assets — The Mortgage Loans” in this Supplement.

Characteristics of the Group 2, 4 and 9 Trust Assets: See Exhibit A to this Supplement for certain information regarding the characteristics of the related Underlying Certificates.

Issuance of Securities: The Securities, other than the Residual Securities, will initially be issued in book-entry form through the book-entry system of the U.S. Federal Reserve Banks (the “Fedwire Book-Entry System”). The Residual Securities will be issued in fully registered, certificated form. See “Description of the Securities — Form of Securities” in this Supplement.

Modification and Exchange: If you own exchangeable Securities you will be able, upon notice and payment of an exchange fee, to exchange them for a proportionate interest in the related Securities shown on Schedule I to this Supplement. See “Description of the Securities — Modification and Exchange” in this Supplement.

Increased Minimum Denomination Classes: Each Class that constitutes an Interest Only Class. See “Description of the Securities — Form of Securities” in this Supplement.

Interest Rates: The Interest Rates for the Fixed Rate Classes are shown on the front cover of this Supplement or on Schedule I to this Supplement.

The Floating Rate and Inverse Floating Rate Classes will bear interest at per annum rates based on one-month LIBOR (hereinafter referred to as “LIBOR”) as follows:

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>LIBOR for Minimum Interest Rate</u>
Security Group 6						
FA	LIBOR + 0.40%	1.105%	0.40%	6.50%	0	0.00%
FB	LIBOR + 0.40%	1.105%	0.40%	6.50%	0	0.00%
FG	LIBOR + 0.40%	1.105%	0.40%	6.50%	0	0.00%
GF	LIBOR + 0.40%	1.105%	0.40%	6.50%	0	0.00%
GS	6.10% – LIBOR	5.395%	0.00%	6.10%	0	6.10%
SA	6.10% – LIBOR	5.395%	0.00%	6.10%	0	6.10%
SB	6.10% – LIBOR	5.395%	0.00%	6.10%	0	6.10%
SG	6.10% – LIBOR	5.395%	0.00%	6.10%	0	6.10%
Security Group 8						
FH	LIBOR + 0.40%	1.263%	0.40%	6.00%	0	0.00%
SH	5.60% – LIBOR	4.737%	0.00%	5.60%	0	5.60%

-
- (1) LIBOR will be established as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this Supplement.
 - (2) The initial Interest Rate will be in effect during the first Accrual Period; the Interest Rate will adjust monthly thereafter.

Class IA is a Weighted Average Coupon Class that will accrue interest during each Accrual Period at a per annum Interest Rate equal to the Weighted Average Certificate Rate (“WACR”) of the Group 9 Trust Assets for that Accrual Period expressed as a percentage of its outstanding notional balance for such Accrual Period. The approximate initial Interest Rate for Class IA, which will be in effect for the first Accrual Period, is 3.78917%.

Allocation of Principal: On each Distribution Date for a Security Group, the following distributions will be made to the related Securities:

SECURITY GROUP 1

The Group 1 Principal Distribution Amount will be allocated in the following order of priority:

1. Sequentially, to KA and KW, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To KS, until retired
3. Sequentially, to KA and KW, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 2

The Group 2 Principal Distribution Amount will be allocated to EC, until retired

SECURITY GROUP 3

The Group 3 Principal Distribution Amount and the JZ Accrual Amount will be allocated in the following order of priority:

1. Sequentially, to JE and JG, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To JZ, until retired
3. Sequentially, to JE and JG, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 4

The Group 4 Principal Distribution Amount will be allocated to LA, until retired

SECURITY GROUP 5

The Group 5 Principal Distribution Amount and the ZD Accrual Amount will be allocated in the following order of priority:

1. Sequentially, to DC and DE, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To ZD, until retired

3. Sequentially, to DC and DE, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 6

The Subgroup 6A Principal Distribution Amount, the Subgroup 6B Principal Distribution Amount, the Subgroup 6C Principal Distribution Amount and the GZ Accrual Amount will be allocated as follows:

- The Subgroup 6A Principal Distribution Amount, concurrently, to A and FA, pro rata, until retired
- The Subgroup 6B Principal Distribution Amount, concurrently, to FG and G, pro rata, until retired
- The GZ Accrual Amount in the following order of priority:
 1. Sequentially, to B, GU, GW and GY, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To GZ, until retired
- The Subgroup 6C Principal Distribution Amount, concurrently, as follows:
 1. 24.9999995976% to FB, until retired
 2. 75.0000004024% in the following order of priority:
 - a. Sequentially, to B, GU, GW and GY, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 - b. To GZ, until retired
 - c. Sequentially, to B, GU, GW and GY, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 7

The Group 7 Principal Distribution Amount and the ZA Accrual Amount will be allocated in the following order of priority:

1. Sequentially, to AB and AC, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To ZA, until retired
3. Sequentially, to AB and AC, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 8

The Group 8 Principal Distribution Amount and the HZ Accrual Amount will be allocated as follows:

- The HZ Accrual Amount in the following order of priority:
 1. Concurrently, to HD, HE, HG and HK, pro rata, until retired
 2. To HZ, until retired

- The Group 8 Principal Distribution Amount, concurrently, as follows:
 1. 82.4417578101%, concurrently, to FH and HA, pro rata, until retired
 2. 17.5582421899% in the following order of priority:
 - a. To HM, until reduced to its Scheduled Principal Balance for that Distribution Date
 - b. To HJ, until reduced to its Scheduled Principal Balance for that Distribution Date
 - c. Concurrently, to HD, HE, HG and HK, pro rata, until retired
 - d. To HZ, until retired
 - e. To HJ, without regard to its Scheduled Principal Balance, until retired
 - f. To HM, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 10

The Subgroup 10A Principal Distribution Amount, the Subgroup 10B Principal Distribution Amount and the Subgroup 10C Principal Distribution Amount will be allocated as follows:

- The Subgroup 10A Principal Distribution Amount to UG, until retired
- The Subgroup 10B Principal Distribution Amount to UK, until retired
- The Subgroup 10C Principal Distribution Amount to UL, until retired

SECURITY GROUP 11

The Subgroup 11A Principal Distribution Amount and the Subgroup 11B Principal Distribution Amount will be allocated as follows:

- The Subgroup 11A Principal Distribution Amount to UH, until retired
- The Subgroup 11B Principal Distribution Amount to UJ, until retired

SECURITY GROUP 12

The Group 12 Principal Distribution Amount, the WZ Accrual Amount and the ZW Accrual Amount will be allocated as follows:

- The WZ Accrual Amount, sequentially, to WA and WZ, in that order, until retired
- The ZW Accrual Amount in the following order of priority:
 1. Sequentially, to WB and WY, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To ZW, until retired
- The Group 12 Principal Distribution Amount, concurrently, as follows:
 1. 90.6381511788%, sequentially, to WA and WZ, in that order, until retired
 2. 9.3618488212% in the following order of priority:
 - a. Sequentially, to WB and WY, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date

- b. To ZW, until retired
- c. Sequentially, to WB and WY, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 13

The Group 13 Principal Distribution Amount will be allocated, sequentially, to MA and MY, in that order, until retired

SECURITY GROUP 14

The Group 14 Principal Distribution Amount, the CZ Accrual Amount and the ZC Accrual Amount will be allocated as follows:

- The CZ Accrual Amount, sequentially, to CA and CZ, in that order, until retired
- The Group 14 Principal Distribution Amount and the ZC Accrual Amount in the following order of priority:
 1. Sequentially, to CA and CZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To ZC, until retired
 3. Sequentially, to CA and CZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 15

The Group 15 Principal Distribution Amount will be allocated to UM, until retired

Scheduled Principal Balances: The Scheduled Principal Balances and Aggregate Scheduled Principal Balances for the Classes listed below are included in Schedule II to this Supplement. They were calculated using among other things the following Structuring Ranges:

Security Group	Class	Structuring Ranges
PAC Classes		
1	KA and KW (in the aggregate)	125% PSA through 225% PSA
3	JE and JG (in the aggregate)	125% PSA through 250% PSA
5	DC and DE (in the aggregate)	125% PSA through 250% PSA
6	B, GU, GW and GY (in the aggregate)	150% PSA through 250% PSA
7	AB and AC (in the aggregate)	125% PSA through 250% PSA
8	HM	225% PSA through 381% PSA
12	WB and WY (in the aggregate)	150% PSA through 250% PSA
14	CA and CZ (in the aggregate)	595% PSA through 1,200% PSA
Scheduled Class		
8	HJ	350% PSA through 700% PSA

Accrual Classes: Interest will accrue on each Accrual Class identified on the front cover of this Supplement at the per annum rate set forth on that page. However, no interest will be distributed to the Accrual Classes as interest. Interest so accrued on each Accrual Class on each Distribution Date will constitute an Accrual Amount, which will be added to the Class Principal Balance of that Class on each Distribution Date and will be distributable as principal as set forth in this Terms Sheet under “Allocation of Principal.”

Notional Classes: The Notional Classes will not receive distributions of principal but have Class Notional Balances for convenience in describing their entitlements to interest. The Class Notional Balance of each Notional Class represents the percentage indicated below of, and reduces to that extent with, the Class Principal Balances or the outstanding principal or notional balance of the related Trust Asset Group indicated:

Class	Original Class Notional Balance	Represents Approximately
Security Group 1		
IK	\$ 4,637,857	14.2857142857% of KA (PAC Class)
IL	13,913,571	42.8571428571% of KA (PAC Class)
KI	\$ 9,275,714	28.5714285714% of KA (PAC Class)
	635,000	14.2857142857% of KW (PAC Class)
	<u>\$ 9,910,714</u>	
KX	\$ 1,905,000	42.8571428571% of KW (PAC Class)
KY	5,272,857	14.2857142857% of KA and KW (in the aggregate) (PAC Classes)
Security Group 2		
EI	\$ 47,503,653	42.8571428571% of EC (SC/PT Class)
Security Group 4		
LI	\$ 3,706,424	20% of LA (SC/PT Class)
Security Group 5		
DI	\$ 5,400,000	16.6666666667% of the first \$32,400,000 of the Group 5 Trust Assets
DY	3,600,000	16.6666666667% of the last \$21,600,000 of the Group 5 Trust Assets
ID	9,000,000	16.6666666667% of the Group 5 Trust Assets
Security Group 6		
BI	\$ 32,932,000	28.5714285714% of B, GU and GW (in the aggregate) (PAC/AD Classes)
GI	28,760,000	28.5714285714% of B (PAC/AD Class)
GS	68,918,187	100% of FA and FB (in the aggregate) (PT Classes)
IG	31,244,571	28.5714285714% of B and GU (in the aggregate) (PAC/AD Classes)
SA	22,326,009	100% of FA (PT Class)
SB	46,592,178	100% of FB (PT Class)
SG	36,621,359	100% of FG (PT Class)
Security Group 8		
SH	\$105,035,671	100% of FH (PT Class)
Security Group 9		
IA	\$ 41,484,411	100% of the Group 9 Trust Assets
Security Group 10		
FI	\$ 16,428,571	32.8571428571% of UG (PT Class)
IF	51,428,571	34.2857142857% of UK (PT Class)
VI	\$ 16,428,571	32.8571428571% of UG (PT Class)
	51,428,571	34.2857142857% of UK (PT Class)
	7,142,857	14.2857142857% of UL (PT Class)
	<u>\$ 74,999,999</u>	
WI	\$ 7,142,857	14.2857142857% of UL (PT Class)

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 11		
IQ	\$ 41,842,527	28.3333333333% of UJ (PT Class)
IV	\$ 40,000,000	26.6666666667% of UH (PT Class)
	41,842,527	28.3333333333% of UJ (PT Class)
	<u>\$ 81,842,527</u>	
QI	\$ 40,000,000	26.6666666667% of UH (PT Class)
Security Group 12		
IW	\$ 16,666,666	16.6666666667% of WA (SEQ/AD Class)
	2,095,235	16.6666666667% of WZ (SEQ Class)
	<u>\$ 18,761,901</u>	
Security Group 13		
IM	\$ 34,885,714	42.8571428571% of MA and MY (in the aggregate) (SEQ Classes)
Security Group 14		
CI	\$ 51,250,888	77.7777777778% of CA (PAC/AD Class)

Tax Status: Double REMIC Series. See “*Certain United States Federal Income Tax Consequences*” in this Supplement and in the Base Offering Circular.

Regular and Residual Classes: Class RR is a Residual Class and represents the Residual Interest of the Issuing REMIC and the Pooling REMIC. All other Classes of REMIC Securities are Regular Classes.

RISK FACTORS

You should purchase securities only if you understand and are able to bear the associated risks. The risks applicable to your investment depend on the principal and interest type of your securities. This section highlights certain of these risks.

The rate of principal payments on the underlying mortgage loans will affect the rate of principal payments on your securities.

The rate at which you will receive principal payments will depend largely on the rate of principal payments, including prepayments, on the mortgage loans underlying the related trust assets. Any historical data regarding mortgage loan prepayment rates may not be indicative of the rate of future prepayments on the underlying mortgage loans, and no assurances can be given about the rates at which the underlying mortgage loans will prepay. We expect the rate of principal payments on the underlying mortgage loans to vary. Borrowers generally may prepay their mortgage loans at any time without penalty.

The terms of the mortgage loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related mortgage loan. Partial releases of security may reduce the value of the remaining security and also allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related mortgage loan in whole or in part.

In addition to voluntary prepayments, mortgage loans can be prepaid as a result of governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Although under certain circumstances Ginnie Mae issuers have the option to repurchase defaulted mortgage loans from the related pool underlying a Ginnie Mae MBS certificate, they are not obligated to do so. Defaulted mortgage loans that remain in pools backing Ginnie Mae MBS certificates may be subject to governmental mortgage insurance claim payments, loss mitigation arrangements or foreclosure, which could have the same effect as voluntary prepayments on the cash flow available to pay the securities.

A catastrophic weather event, pandemic or other natural disaster may affect the rate of principal payments, including prepayments, on the underlying mortgage loans. Any such event may damage the related mortgaged properties that secure the mortgage loans or may lead to a general economic downturn in the affected regions, including job losses and declines in real estate values. A general economic downturn may increase the rate of defaults on the mortgage loans in such areas resulting in prepayments on the related securities due to governmental mortgage insurance claim payments, loss mitigation arrangements, repurchases or liquidations of defaulted mortgage loans. Insurance payments on damaged or destroyed homes may also lead to prepayments on the underlying mortgage loans. Further, in connection with presidentially declared major disasters, Ginnie Mae may authorize optional special assistance to issuers, including expanded buyout authority which allows issuers, upon receiving written approval from Ginnie Mae, to repurchase eligible loans from the related pool underlying a Ginnie Mae MBS certificate, even if such loans are not delinquent or do not otherwise meet the standard conditions for removal or repurchase.

No assurances can be given as to the timing or frequency of any governmental mortgage insurance claim payments, issuer repurchases, loss mitigation arrangements or foreclosure proceedings with respect to defaulted mortgage loans and the resulting effect on the timing or rate of principal payments on your securities.

Rates of principal payments can reduce your yield. The yield on your securities probably will be lower than you expect if:

- you bought your securities at a premium (interest only securities, for example) and principal payments are faster than you expected, or

- you bought your securities at a discount and principal payments are slower than you expected.

In addition, if your securities are interest only securities or securities purchased at a significant premium, you could lose money on your investment if prepayments occur at a rapid rate.

Under certain circumstances, a Ginnie Mae issuer has the right to repurchase a defaulted mortgage loan from the related pool of mortgage loans underlying a particular Ginnie Mae MBS certificate, the effect of which would be comparable to a prepayment of such mortgage loan. At its option and without Ginnie Mae's prior consent, a Ginnie Mae issuer may repurchase any mortgage loan at an amount equal to par less any amounts previously advanced by such issuer in connection with its responsibilities as servicer of such mortgage loan to the extent that (i) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or before December 1, 2002, such mortgage loan has been delinquent for four consecutive months, and at least one delinquent payment remains uncured or (ii) in the case of a mortgage loan included in a pool of mortgage loans underlying a Ginnie Mae MBS certificate issued on or after January 1, 2003, no payment has been made on such mortgage loan for three consecutive months. Any such repurchase will result in prepayment of the principal balance or reduction in the notional balance of the securities ultimately backed by such mortgage loan. No assurances can be given as to the timing or frequency of any such repurchases.

The levels of LIBOR will affect the yields on the floating rate and inverse floating rate securities. If LIBOR performs differently from what you expect, the yield on the floating rate and inverse floating rate securities may be lower than you expect. Lower levels of LIBOR will generally reduce the yield on floating rate securities; higher levels of LIBOR will generally reduce the yield on the inverse floating rate securities. You should bear in mind that the timing of changes in the level of LIBOR may affect

your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that LIBOR will remain constant.

An investment in the securities is subject to significant reinvestment risk. The rate of principal payments on your securities is uncertain. You may be unable to reinvest the payments on your securities at the same returns provided by the securities. Lower prevailing interest rates may result in an unexpected return of principal. In that interest rate climate, higher yielding reinvestment opportunities may be limited. Conversely, higher prevailing interest rates may result in slower returns of principal, and you may not be able to take advantage of higher yielding investment opportunities. The final payment on your security may occur much earlier than the final distribution date.

Support securities will be more sensitive to rates of principal payments than other securities. If principal prepayments result in principal distributions on any distribution date equal to or less than the amount needed to produce scheduled payments on the PAC and scheduled classes, the related support class or classes will not receive any principal distribution on that date (other than from any applicable accrual amount). If prepayments result in principal distributions on any distribution date greater than the amount needed to produce scheduled payments on the PAC and scheduled classes for that distribution date, this excess will be distributed to the related support class or classes.

The rate of payments on the underlying certificates will directly affect the rate of payments on the group 2, 4 and 9 securities. The underlying certificates will be sensitive in varying degrees to:

- the rate of payments of principal (including prepayments) of the related mortgage loans, and
- the priorities for the distribution of principal among the classes of the related underlying series.

As described in the related underlying certificate disclosure documents, the principal entitlements

of the underlying certificates included in trust asset groups 2 and 4 on any payment date are calculated, directly or indirectly, on the basis of schedules; no assurance can be given that the underlying certificates will adhere to their schedules. Further, prepayments on the related mortgage loans may have occurred at rates faster or slower than those initially assumed.

The trust assets underlying one of the underlying certificates included in trust asset group 9 are also previously issued certificates that represent beneficial ownership interests in a separate trust. The rate of payments on the previously issued certificates backing this underlying certificate will directly affect the timing and rate of payments on your securities. You should read the related underlying certificate disclosure documents, including the risk factors contained therein, to understand the payments on and related risks of the previously issued certificates backing this underlying certificate.

This supplement contains no information as to whether the underlying certificates or the related classes or trust assets with which a notional underlying certificate reduces have adhered to any applicable principal balance schedules, whether any related supporting classes remain outstanding or whether the underlying certificates otherwise have performed as originally anticipated. Additional information as to the underlying certificates may be obtained by performing an analysis of current principal factors of the underlying certificates in light of applicable information contained in the related underlying certificate disclosure documents.

Up to 10% of the mortgage loans underlying the group 1, 2, 4, 6, 8, 9, 10, 11, 13, 14 and 15 trust assets and up to 100% of the mortgage loans underlying the group 3, 5, 7 and 12 trust assets may be higher balance mortgage loans. Subject to special pooling parameters set forth in the Ginnie Mae Mortgage-Backed Securities Guide, qualifying federally-insured or guaranteed mortgage loans that exceed certain balance thresholds established by Ginnie Mae (“higher balance mortgage loans”) may be included in Ginnie Mae guaranteed pools. There

are no historical performance data regarding the prepayment rates for higher balance mortgage loans. If the higher balance mortgage loans prepay faster or slower than expected, the weighted average lives and yields of the related securities are likely to be affected, perhaps significantly. Furthermore, higher balance mortgage loans tend to be concentrated in certain geographic areas, which may experience relatively higher rates of defaults in the event of adverse economic conditions. No assurances can be given about the prepayment experience or performance of the higher balance mortgage loans.

Changes to, the elimination of, and uncertainty with respect to, LIBOR could adversely affect your investment in LIBOR Classes. On July 27, 2017, the U.K.-based Financial Conduct Authority (the “FCA”) announced its intention to cease sustaining LIBOR after 2021. The FCA indicated that it does not intend to sustain LIBOR through using its influence or legal powers beyond that date. It is possible that the ICE Benchmark Administration (“ICE”) and the reference banks could continue to produce LIBOR on the current basis after 2021, if they are willing and able to do so, but it cannot be predicted or assured whether LIBOR will survive in its current form, a modified form, or at all. If LIBOR changes in a manner that causes regulators or market participants to question LIBOR’s continued viability as a benchmark, or if LIBOR becomes unavailable, investors in financial instruments linked to LIBOR will likely experience disparate outcomes based on relevant contractual terms, market or product type, jurisdiction, and a host of other factors. There can be no assurance that legislative or regulatory actions will provide for an effective LIBOR substitute or replacement or that broadly accepted industry practices regarding LIBOR cessation will develop. It is uncertain what effect such disparate outcomes or divergent industry practices will have on the performance or value of securities with an interest rate based on LIBOR (“LIBOR Classes”).

In the event of a benchmark transition event with respect to LIBOR, Ginnie Mae will select an alternative index for LIBOR Classes in accordance with the ARRC Endorsed Terms, as

described under “Description of the Securities — Interest Rate Indices — Determination of LIBOR” in the base offering circular. The ARRC Endorsed Terms, however, generally rely on actions to be taken by regulators or the Alternative Rates Reference Committee (“ARRC”) convened by the Federal Reserve Board and the Federal Reserve Bank of New York, and there can be no assurance whether or when those actions will be taken. Further, there can be no assurance that those actions or related events will be sufficient to trigger a change from LIBOR to an alternative index in all circumstances where LIBOR is no longer representative of market interest rates, or that benchmark transition events for the LIBOR Classes will align with similar events in the market generally or in other parts of the financial markets, such as the derivatives market.

The ARRC Endorsed Terms provide for various alternative benchmarks based on availability: the first two alternatives involve the secured overnight financing rate (“SOFR”) published by the Federal Reserve Bank of New York, and the last two alternatives are not currently specified. SOFR is a secured, risk-free rate that is calculated based on different criteria than LIBOR, which is an unsecured rate reflecting counterparty risk. Accordingly, SOFR and LIBOR may diverge, particularly in times of macroeconomic stress. Since the initial publication of SOFR in April 2018, daily changes in SOFR have at times been more volatile than daily changes in comparable benchmark or market rates. Over the lives of the LIBOR Classes, SOFR may diverge from historical or indicative data. Term SOFR, which is the first alternative benchmark, is expected to be a prospective term rate based on SOFR. Term SOFR is currently in development and no assurance can be provided that its development will be completed. If term SOFR is unavailable as of the benchmark replacement date, as defined in the base offering circular under “Description of the Securities — Interest Rate Indices — Determination of LIBOR”, the next alternative benchmark is compounded SOFR. Compounded SOFR is a compounded average for which there are multiple methodologies, which may also diverge from LIBOR. If a benchmark replacement other than term SOFR is chosen because term SOFR is not

initially available, term SOFR will become the benchmark replacement if it later becomes available, which could lead to further volatility in the interest rates on the LIBOR Classes. Moreover, a benchmark replacement adjustment will be applied to compensate for the foregoing effects of any benchmark replacement. However, no assurance can be provided that any benchmark replacement adjustment will be sufficient to produce the economic equivalent of the then-current benchmark, either at the benchmark replacement date or over the lives of the LIBOR Classes. Additionally, Ginnie Mae cannot anticipate how long it will take to develop the systems and processes necessary to adopt a specific benchmark replacement, which may delay and contribute to uncertainty and volatility surrounding any benchmark transition for LIBOR Classes.

Ginnie Mae will have sole discretion with respect to certain elements of the benchmark replacement process, including determining whether a benchmark transition event and its related benchmark replacement date have occurred, determining which benchmark replacement is available, determining the earliest practicable index determination date for using the benchmark replacement, selecting a benchmark replacement in the event term SOFR or compounded SOFR is unavailable, determining benchmark replacement adjustments (if not otherwise determined by applicable governing bodies or authorities) and making benchmark replacement conforming changes (including potential changes affecting the business day convention and index determination date). If Ginnie Mae, in its sole discretion, determines that an alternative index is not administratively feasible, including as a result of technical, administrative or operational issues, then such alternative index will be deemed not determinable as of such date. Ginnie Mae may determine an alternative not to be administratively feasible even if such alternative index has been adopted by other market participants in similar products. Furthermore, if Ginnie Mae does not select an alternative index on any date as a result of its determination that an alternative higher on the list of ARRC Endorsed Terms is not administratively feasible as of such date and such

higher alternative subsequently becomes administratively feasible (as determined by Ginnie Mae in its sole discretion), then Ginnie Mae may elect to replace the previously selected alternative with such higher alternative. Any of the foregoing determinations will be at the sole discretion of Ginnie Mae and may adversely affect the return on LIBOR Classes, the trading market for such classes and the value of such classes. None of the foregoing determinations, or the application thereof to payment calculations on the LIBOR Classes, will be subject to the approval of security holders.

Notwithstanding the foregoing, Ginnie Mae will select only an alternative index as to which it and the trustee will receive an opinion of counsel that the selection of such alternative index will not cause any related Trust REMIC to lose its classification as a REMIC for United States federal income tax purposes.

The securities may not be a suitable investment for you. The securities, especially the group 2, 4 and 9 securities and, in particular, the support, interest only, accrual and residual classes, are not suitable investments for all investors.

In addition, although the sponsor intends to make a market for the purchase and sale of the securities after their initial issuance, it has no obligation to do so. There is no assurance that a secondary market will develop, that any secondary market will continue, or that the price at which you can sell an investment in any class will enable you to realize a desired yield on that investment.

You will bear the market risks of your investment. The market values of the classes are likely to fluctuate. These fluctuations may be significant and could result in significant losses to you.

The secondary markets for mortgage-related securities have experienced periods of illiquidity and can be expected to do so in the future. Illiquidity can have a severely adverse effect on the prices of classes that are especially sensitive to prepayment or interest rate risk or that have been structured to meet the investment requirements of limited categories of investors.

The residual securities may experience significant adverse tax timing consequences. Accordingly, you are urged to consult tax advisors and to consider the after-tax effect of ownership of a residual security and the suitability of the residual securities to your investment objectives. See *“Certain United States Federal Income Tax Consequences” in this supplement and in the base offering circular.*

You are encouraged to consult advisors regarding the financial, legal, tax and other aspects of an investment in the securities. You should not purchase the securities of any class unless you understand and are able to bear the prepayment, yield, liquidity and market risks associated with that class.

The actual characteristics of the underlying mortgage loans will affect the weighted average lives and yields of your securities.

The yield and decrement tables in this supplement are based on assumed characteristics which are likely to be different from the actual characteristics. As a result, the yields on your securities could be lower than you expected, even if the mortgage loans prepay at the constant prepayment rates set forth in the applicable table.

It is highly unlikely that the underlying mortgage loans will prepay at any of the prepayment rates assumed in this supplement, or at any constant prepayment rate.

THE TRUST ASSETS

General

The Sponsor intends to acquire the Trust Assets in privately negotiated transactions prior to the Closing Date and to sell them to the Trust according to the terms of a Trust Agreement between the Sponsor and the Trustee. The Sponsor will make certain representations and warranties with respect to

the Trust Assets. All Trust Assets, regardless of whether the assets consist of Trust MBS or the Underlying Certificates, will evidence, directly or indirectly, Ginnie Mae Certificates.

The Trust MBS Groups (1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15)

The Group 13 Trust Assets are either:

1. Ginnie Mae I MBS Certificates guaranteed by Ginnie Mae, or
2. Ginnie Mae Platinum Certificates backed by Ginnie Mae I MBS Certificates and guaranteed by Ginnie Mae.

Each Mortgage Loan underlying a Ginnie Mae I MBS Certificate bears interest at a Mortgage Rate 0.50% per annum greater than the related Certificate Rate. The difference between the Mortgage Rate and the Certificate Rate is used to pay the related servicers of the Mortgage Loans a monthly servicing fee and Ginnie Mae a fee for its guaranty of the Ginnie Mae I MBS Certificate of 0.44% per annum and 0.06% per annum, respectively, of the outstanding principal balance of the Mortgage Loan.

The Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 and 15 Trust Assets are either:

1. Ginnie Mae II MBS Certificates guaranteed by Ginnie Mae, or
2. Ginnie Mae Platinum Certificates backed by Ginnie Mae II MBS Certificates and guaranteed by Ginnie Mae.

Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued prior to July 1, 2003 bears interest at a Mortgage Rate 0.50% to 1.50% per annum greater than the related Certificate Rate. Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued on or after July 1, 2003 bears interest at a Mortgage Rate 0.25% to 0.75% per annum greater than the related Certificate Rate. Ginnie Mae receives a fee (the “Ginnie Mae Certificate Guaranty Fee”) for its guaranty of each Ginnie Mae II MBS Certificate of 0.06% per annum of the outstanding principal balance of each related Mortgage Loan. The difference between (a) the Mortgage Rate and (b) the sum of the Certificate Rate and the rate of the Ginnie Mae Certificate Guaranty Fee is used to pay the related servicers of the Mortgage Loans a monthly servicing fee.

The Underlying Certificates (Groups 2, 4 and 9)

The Group 2, 4 and 9 Trust Assets are Underlying Certificates that represent beneficial ownership interests in one or more separate trusts, the assets of which evidence direct or indirect beneficial ownership interests in certain Ginnie Mae Certificates. Each Underlying Certificate constitutes all or a portion of a class of a separate Series of certificates described in the related Underlying Certificate Disclosure Document. Each Underlying Certificate Disclosure Document may be obtained from the Information Agent as described under “Available Information” in this Supplement or on ginniemae.gov. Investors are cautioned that material changes in facts and circumstances may have occurred since the date of each Underlying Certificate Disclosure Document, including changes in prepayment rates, prevailing interest rates and other economic factors, which may limit the usefulness of, and be directly contrary to the assumptions used in preparing the information included in, the offering document. *See “Underlying Certificates” in the Base Offering Circular.*

Each Underlying Certificate provides for monthly distributions and is further described in the table contained in Exhibit A to this Supplement.

The Mortgage Loans

The Mortgage Loans underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans will consist of first lien, single-family, fixed rate, residential mortgage loans that are insured or guaranteed by the Federal Housing Administration, the United States Department of Veterans Affairs, Rural Development (formerly the Rural Housing Service) or the United States Department of Housing and Urban Development (“HUD”). See *“The Ginnie Mae Certificates — General” in the Base Offering Circular*.

Specific information regarding the characteristics of the Mortgage Loans underlying the Trust MBS is not available. For purposes of this Supplement, certain assumptions have been made regarding the remaining terms to maturity, loan ages and, in the case of the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 and 15 Trust Assets, Mortgage Rates of the Mortgage Loans underlying the Trust MBS. However, the actual remaining terms to maturity, loan ages and, in the case of the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 and 15 Trust Assets, Mortgage Rates of many of the Mortgage Loans will differ from the characteristics assumed, perhaps significantly. This will be the case even if the weighted average characteristics of the Mortgage Loans are the same as the assumed characteristics. Small differences in the characteristics of the Mortgage Loans can have a significant effect on the Weighted Average Lives and yields of the Securities. See *“Risk Factors” and “Yield, Maturity and Prepayment Considerations” in this Supplement*.

The Trustee Fee

The Sponsor will contribute certain Ginnie Mae Certificates in respect of the Trustee Fee. On each Distribution Date, the Trustee will retain all principal and interest distributions received on such Ginnie Mae Certificates in payment of the Trustee Fee.

GINNIE MAE GUARANTY

The Government National Mortgage Association (“Ginnie Mae”), a wholly-owned corporate instrumentality of the United States of America within HUD, guarantees the timely payment of principal and interest on the Securities. The General Counsel of HUD has provided an opinion to the effect that Ginnie Mae has the authority to guarantee multiclass securities and that Ginnie Mae guaranties will constitute general obligations of the United States, for which the full faith and credit of the United States is pledged. See *“Ginnie Mae Guaranty” in the Base Offering Circular*.

DESCRIPTION OF THE SECURITIES

General

The description of the Securities contained in this Supplement is not complete and is subject to, and is qualified in its entirety by reference to, all of the provisions of the Trust Agreement. See *“Description of the Securities” in the Base Offering Circular*.

Form of Securities

Each Class of Securities other than the Residual Securities initially will be issued and maintained, and may be transferred only on the Fedwire Book-Entry System. Beneficial Owners of Book-Entry Securities will ordinarily hold these Securities through one or more financial intermediaries, such as banks, brokerage firms and securities clearing organizations that are eligible to maintain book-entry accounts

on the Fedwire Book-Entry System. By request accompanied by the payment of a transfer fee of \$25,000 per Certificated Security to be issued, a Beneficial Owner may receive a Regular Security in certificated form.

The Residual Securities will not be issued in book-entry form but will be issued in fully registered, certificated form and may be transferred or exchanged, subject to the transfer restrictions applicable to Residual Securities set forth in the Trust Agreement, at the Corporate Trust Office of the Trustee. *See “Description of the Securities — Forms of Securities; Book-Entry Procedures” in the Base Offering Circular.*

Each Regular and MX Class (other than the Increased Minimum Denomination Classes) will be issued in minimum dollar denominations of initial principal balance of \$1,000 and integral multiples of \$1 in excess of \$1,000. The Increased Minimum Denomination Classes will be issued in minimum denominations that equal \$100,000 in initial notional balance.

Distributions

Distributions on the Securities will be made on each Distribution Date as specified under “Terms Sheet — Distribution Dates” in this Supplement. On each Distribution Date for a Security, or in the case of the Certificated Securities, on the first Business Day after the related Distribution Date, the Distribution Amount will be distributed to the Holders of record as of the related Record Date. Beneficial Owners of Book-Entry Securities will receive distributions through credits to accounts maintained for their benefit on the books and records of the appropriate financial intermediaries. Holders of Certificated Securities will receive distributions by check or, subject to the restrictions set forth in the Base Offering Circular, by wire transfer. *See “Description of the Securities — Distributions” and “— Method of Distributions” in the Base Offering Circular.*

Interest Distributions

The Interest Distribution Amount will be distributed on each Distribution Date to the Holders of all Classes of Securities entitled to distributions of interest.

- Interest will be calculated on the basis of a 360-day year consisting of twelve 30-day months.
- Interest distributable (or accrued in the case of an Accrual Class) on any Class for any Distribution Date will consist of 30 days’ interest on its Class Principal Balance (or Class Notional Balance) as of the related Record Date.
- Investors can calculate the amount of interest to be distributed (or accrued in the case of an Accrual Class) on each Class of Securities for any Distribution Date by using the Class Factors published in the preceding month. *See “— Class Factors” below.*

Categories of Classes

For purposes of interest distributions, the Classes will be categorized as shown under “Interest Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the interest entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

Accrual Periods

The Accrual Period for each Regular and MX Class is set forth in the table below:

Class	Accrual Period
Fixed Rate and Weighted Average Coupon Classes	The calendar month preceding the related Distribution Date
Floating Rate and Inverse Floating Rate Classes	From the 20 th day of the month preceding the month of the related Distribution Date through the 19 th day of the month of that Distribution Date

Fixed Rate Classes

Each Fixed Rate Class will bear interest at the per annum Interest Rate shown on the front cover of this Supplement or on Schedule I to this Supplement.

Floating Rate and Inverse Floating Rate Classes

The Floating Rate and Inverse Floating Rate Classes will bear interest as shown under “Terms Sheet — Interest Rates” in this Supplement. The Interest Rates for the Floating Rate and Inverse Floating Rate Classes will be based on LIBOR. The Trustee or its agent will determine LIBOR on the basis of the ICE LIBOR method, as described under “Description of the Securities — Interest Rate Indices — Determination of LIBOR” in the Base Offering Circular.

We can provide no assurance that LIBOR for a Distribution Date accurately represents the offered rate at which one-month U.S. dollar deposits are being quoted to prime banks in the London interbank market, nor that the procedures for calculating LIBOR on the basis of the ICE LIBOR method for one-month U.S. dollar deposits will not change. Any change in LIBOR values resulting from any change in reporting or in the determination of LIBOR may cause LIBOR to fluctuate disproportionately to changes in other market lending rates. If LIBOR becomes unavailable, a replacement rate will be selected, as described under “Description of the Securities — Interest Rate Indices — Determination of LIBOR” in the Base Offering Circular.

Weighted Average Coupon Class

The Weighted Average Coupon Class will bear interest at a per annum Interest Rate based on Group 9 WACR as shown under “Terms Sheet — Interest Rates” in this Supplement.

The Trustee’s determination of LIBOR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain LIBOR levels and Interest Rates for the current and preceding Accrual Periods on ginniemae.gov or by calling the Information Agent at (800) 234-GNMA.

Accrual Classes

Each of Classes CZ, GZ, HZ, JZ, WZ, ZA, ZC, ZD and ZW is an Accrual Class. Interest will accrue on the Accrual Classes and be distributed as described under “Terms Sheet — Accrual Classes” in this Supplement.

Principal Distributions

The Principal Distribution Amount for each Group or Subgroup, as applicable, and each Accrual Amount will be distributed to the Holders entitled thereto as described under “Terms Sheet — Allocation of Principal” in this Supplement. Investors can calculate the amount of principal to be distributed

with respect to any Distribution Date by using the Class Factors published in the preceding and current months. See “— *Class Factors*” below.

Categories of Classes

For purposes of principal distributions, the Classes will be categorized as shown under “Principal Type” on the front cover of this Supplement and on Schedule I to this Supplement. The abbreviations used in this Supplement to describe the principal entitlements of the Classes are explained under “Class Types” in Appendix I to the Base Offering Circular.

Notional Classes

The Notional Classes will not receive principal distributions. For convenience in describing interest distributions, the Notional Classes will have the original Class Notional Balances shown on the front cover of this Supplement and on Schedule I to this Supplement. The Class Notional Balances will be reduced as shown under “Terms Sheet — Notional Classes” in this Supplement.

Residual Securities

The Class RR Securities will represent the beneficial ownership of the Residual Interest in the Issuing REMIC and the beneficial ownership of the Residual Interest in the Pooling REMIC, as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular. The Class RR Securities have no Class Principal Balance and do not accrue interest. The Class RR Securities will be entitled to receive the proceeds of the disposition of any assets remaining in the Trust REMICs after the Class Principal Balance or Class Notional Balance of each Class of Regular Securities has been reduced to zero. However, any remaining proceeds are not likely to be significant. The Residual Securities may not be transferred to a Plan Investor, a Non-U.S. Person or a Disqualified Organization.

Class Factors

The Trustee will calculate and make available for each Class of Securities, no later than the day preceding the applicable Distribution Date, the factor (carried out to eight decimal places) that when multiplied by the Original Class Principal Balance (or original Class Notional Balance) of that Class, determines the Class Principal Balance (or Class Notional Balance) after giving effect to the distribution of principal to be made on the Securities (and any addition to the Class Principal Balance of an Accrual Class) or any reduction of Class Notional Balance on that Distribution Date (each, a “Class Factor”).

- The Class Factor for any Class of Securities for each month following the issuance of the Securities will reflect its remaining Class Principal Balance (or Class Notional Balance) after giving effect to any principal distribution (or addition to principal) to be made or any reduction of Class Notional Balance on the Distribution Date occurring in that month.
- The Class Factor for each Class for the month of issuance is 1.00000000.
- The Class Factors for the MX Classes and the Classes of REMIC Securities that are exchangeable for the MX Classes will be calculated assuming that the maximum possible amount of each Class is outstanding at all times, regardless of any exchanges that may occur.
- Based on the Class Factors published in the preceding and current months (and Interest Rates), investors in any Class (other than an Accrual Class) can calculate the amount of principal and interest to be distributed to that Class and investors in an Accrual Class can calculate the total amount of principal to be distributed to (or interest to be added to the Class Principal Balance of) that Class on the Distribution Date in the current month.
- Investors may obtain current Class Factors on ginniemae.gov.

See “Description of the Securities — Distributions” in the Base Offering Circular.

Termination

The Trustee, at its option, may purchase or cause the sale of the Trust Assets and thereby terminate the Trust on any Distribution Date on which the aggregate of the Class Principal Balances of the Securities is less than 1% of the aggregate Original Class Principal Balances of the Securities. On any Distribution Date upon the Trustee’s determination that the REMIC status of any Trust REMIC has been lost or that a substantial risk exists that this status will be lost for the then current taxable year, the Trustee will terminate the Trust and retire the Securities.

Upon any termination of the Trust, the Holder of any outstanding Security (other than a Residual or Notional Class Security) will be entitled to receive that Holder’s allocable share of the Class Principal Balance of that Class plus any accrued and unpaid interest thereon at the applicable Interest Rate, and any Holder of any outstanding Notional Class Security will be entitled to receive that Holder’s allocable share of any accrued and unpaid interest thereon at the applicable Interest Rate. The Residual Holders will be entitled to their pro rata share of any assets remaining in the Trust REMICs after payment in full of the amounts described in the foregoing sentence. However, any remaining assets are not likely to be significant.

Modification and Exchange

All or a portion of the Classes of REMIC Securities specified on the front cover may be exchanged for a proportionate interest in the related MX Class or Classes shown on Schedule I to this Supplement. Similarly, all or a portion of the related MX Class or Classes may be exchanged for proportionate interests in the related Class or Classes of REMIC Securities and, in the case of Combinations 2, 3, 4, 5, 11, 12, 13 and 16, other related MX Classes. This process may occur repeatedly.

Each exchange may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered.

In the case of Combinations 2, 3, 4, 5, 11, 12, 13 and 16, the related REMIC Securities may be exchanged for proportionate interests in various subcombinations of MX Classes. Similarly, all or a portion of these MX Classes may be exchanged for proportionate interests in the related REMIC Securities or in other subcombinations of the related MX Classes. Each subcombination may be effected only in proportions that result in the principal and interest entitlements of the Securities received being equal to the entitlements of the Securities surrendered. *See the example under “Description of the Securities — Modification and Exchange” in the Base Offering Circular.*

A Beneficial Owner proposing to effect an exchange must notify the Trustee through the Beneficial Owner’s Book-Entry Depository participant. This notice must be received by the Trustee not later than two Business Days before the proposed exchange date. The exchange date can be any Business Day other than the last Business Day of the month. The notice must contain the outstanding principal and notional balances of the Securities to be included in the exchange and the proposed exchange date. The notice is required to be delivered to the Trustee by email to USBGNMTeam@usbank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, Massachusetts, 02110, Attention: Ginnie Mae REMIC Trust 2020-032. The Trustee may be contacted by telephone at (617) 603-6451 and by fax at (617) 603-6644.

A fee will be payable to the Trustee in connection with each exchange equal to 1/32 of 1% of the outstanding principal balance (or notional balance) of the Securities surrendered for exchange (but not

less than \$2,000 or more than \$25,000); provided, however, that no fee will be payable in respect of an interest only security unless all securities involved in the exchange are interest only securities. The fee must be paid concurrently with the exchange.

The first distribution on a REMIC Security or an MX Security received in an exchange will be made on the Distribution Date in the month following the month of the exchange. The distribution will be made to the Holder of record as of the Record Date in the month of exchange.

See “Description of the Securities — Modification and Exchange” in the Base Offering Circular.

YIELD, MATURITY AND PREPAYMENT CONSIDERATIONS

General

The prepayment experience of the Mortgage Loans will affect the Weighted Average Lives of and the yields realized by investors in the related Securities.

- The Mortgage Loans do not contain “due-on-sale” provisions, and any Mortgage Loan may be prepaid in full or in part at any time without penalty.
- The rate of payments (including prepayments and payments in respect of liquidations) on the Mortgage Loans is dependent on a variety of economic, geographic, social and other factors, including prevailing market interest rates and general economic factors.

The rate of prepayments with respect to single-family mortgage loans has fluctuated significantly in recent years. Although there is no assurance that prepayment patterns for the Mortgage Loans will conform to patterns for more traditional types of conventional fixed rate mortgage loans, generally:

- if mortgage interest rates fall materially below the Mortgage Rates on any of the Mortgage Loans (giving consideration to the cost of refinancing), the rate of prepayment of those Mortgage Loans would be expected to increase; and
- if mortgage interest rates rise materially above the Mortgage Rates on any of the Mortgage Loans, the rate of prepayment of those Mortgage Loans would be expected to decrease.

In addition, following any Mortgage Loan default and the subsequent liquidation of the underlying Mortgaged Property, the principal balance of the Mortgage Loan will be distributed through a combination of liquidation proceeds, advances from the related Ginnie Mae Issuer and, to the extent necessary, proceeds of Ginnie Mae’s guaranty of the Ginnie Mae Certificates. As a result, defaults experienced on the Mortgage Loans will accelerate the distribution of principal of the Securities.

The terms of the Mortgage Loans may be modified to permit, among other things, a partial release of security, which releases a portion of the mortgaged property from the lien securing the related Mortgage Loan. Partial releases of security may allow the related borrower to sell the released property and generate proceeds that may be used to prepay the related Mortgage Loan in whole or in part.

Under certain circumstances, the Trustee has the option to purchase the Trust Assets, thereby effecting early retirement of the Securities. *See “Description of the Securities — Termination” in this Supplement.*

Investors in the Group 2, 4 and 9 Securities are urged to review the discussion under “Risk Factors — The rate of payments on the underlying certificates will directly affect the rate of payments on the group 2, 4 and 9 securities” in this Supplement.

Accretion Directed Classes

Classes AB, AC, B, CA, CZ, DC, DE, GU, GW, GY, HD, HE, HG, HK, JE, JG, WA, WB and WY are Accretion Directed Classes. The related Accrual Amounts will be applied to making principal distributions on those Classes as described in this Supplement.

Each of the Accretion Directed Classes has the AD designation in the suffix position, rather than the prefix position, in its class principal type because it does not have principal payment stability through the applicable pricing prepayment assumption. Although the Accretion Directed Classes are entitled to receive payments from the related Accrual Amounts, they do not have principal payment stability through any prepayment rate significantly higher than 0% PSA, except within any applicable Effective Ranges.

Securities that Receive Principal on the Basis of Schedules

As described in this Supplement, each PAC and Scheduled Class will receive principal payments in accordance with a schedule calculated on the basis of, among other things, a Structuring Range. See “*Terms Sheet — Scheduled Principal Balances.*” However, whether any such Class will adhere to its schedule and receive “Scheduled Payments” on a Distribution Date will largely depend on the level of prepayments experienced by the related Mortgage Loans.

Each PAC and Scheduled Class exhibits an Effective Range of constant prepayment rates at which such Class will receive Scheduled Payments. That range may differ from the Structuring Range used to create the related principal balance schedule. Based on the Modeling Assumptions, the *initial* Effective Ranges for the PAC and Scheduled Classes are as follows:

Security Group	Class	Initial Effective Ranges
PAC Classes		
1	KA and KW (in the aggregate)	125% PSA through 225% PSA
3	JE and JG (in the aggregate)	125% PSA through 250% PSA
5	DC and DE (in the aggregate)	125% PSA through 250% PSA
6	B, GU, GW and GY (in the aggregate)	150% PSA through 250% PSA
7	AB and AC (in the aggregate)	125% PSA through 250% PSA
8	HM	225% PSA through 381% PSA
12	WB and WY (in the aggregate)	150% PSA through 250% PSA
14	CA and CZ (in the aggregate)	595% PSA through 1,200% PSA
Scheduled Class		
8	HJ	350% PSA through 700% PSA

- The principal payment stability of the Group 1, 3, 5, 6, 7, 12 and 14 PAC Classes will be supported by the related Support Class.
- The principal payment stability of the Group 8 PAC Class will be supported by the Scheduled Class and the related Support Classes.
- The principal payment stability of the Scheduled Class will be supported by the related Support Classes.

If all of the Classes supporting a given Class are retired before the Class being supported is retired, the outstanding Class will no longer have an Effective Range and will become more sensitive to prepayments on the related Mortgage Loans.

There is no assurance that the related Mortgage Loans will have the characteristics assumed in the Modeling Assumptions, which were used to determine the initial Effective Ranges. If the initial Effective Ranges were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Ranges could differ from those shown in the above table. Therefore, even if the Mortgage Loans were to prepay at a constant rate within the initial Effective Range shown for any Class in the above table, that Class could fail to receive Scheduled Payments.

Moreover, the related Mortgage Loans will not prepay at any *constant* rate. Non-constant prepayment rates can cause any PAC or Scheduled Class not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range for that Class. Further, the Effective Range for any PAC or Scheduled Class can narrow, shift over time or cease to exist depending on the actual characteristics of the related Mortgage Loans.

If the related Mortgage Loans prepay at rates that are generally below the Effective Range for any PAC or Scheduled Class, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such related PAC or Scheduled Class, and its Weighted Average Life may be extended, perhaps significantly.

If the related Mortgage Loans prepay at rates that are generally above the Effective Range for any PAC or Scheduled Class, its supporting Class or Classes may be retired earlier than that PAC or Scheduled Class, and its Weighted Average Life may be shortened, perhaps significantly.

Assumability

Each Mortgage Loan may be assumed, subject to HUD review and approval, upon the sale of the related Mortgaged Property. See *“Yield, Maturity and Prepayment Considerations — Assumability of Government Loans” in the Base Offering Circular.*

Final Distribution Date

The Final Distribution Date for each Class, which is set forth on the front cover of this Supplement or on Schedule I to this Supplement, is the latest date on which the related Class Principal Balance or Class Notional Balance will be reduced to zero.

- The actual retirement of any Class may occur earlier than its Final Distribution Date.
- According to the terms of the Ginnie Mae Guaranty, Ginnie Mae will guarantee payment in full of the Class Principal Balance of each Class of Securities no later than its Final Distribution Date.

Modeling Assumptions

Unless otherwise indicated, the tables that follow have been prepared on the basis of the characteristics of the Underlying Certificates, the priorities of distributions on the Underlying Certificates, and the following assumptions (the “Modeling Assumptions”), among others:

1. The Mortgage Loans underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 and 15 Trust Assets” in the Terms Sheet, except in the case of information set forth under the 0% PSA Prepayment Assumption Rate, for which each Mortgage Loan underlying a Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14 or 15 Trust Asset is assumed to have an original and a remaining term to maturity of 360 months and each Mortgage Loan underlying a Group 1, 3, 5, 6, 7, 8, 10, 11, 12, 14 or 15 Trust Asset is assumed to have a Mortgage Rate of 1.50% per annum higher than the related Certificate Rate.

2. The Mortgage Loans prepay at the constant percentages of PSA (described below) shown in the related table.

3. Distributions on the Group 13 Securities are always received on the 16th day of the month and distributions on the Group 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 and 15 Securities are always received on the 20th day of the month, in each case, whether or not a Business Day, commencing in April 2020.

4. A termination of the Trust or the Underlying Trusts does not occur.

5. The Closing Date for the Securities is March 30, 2020.

6. No expenses or fees are paid by the Trust other than the Trustee Fee, which is paid as described under “The Trust Assets — The Trustee Fee” in this Supplement.

7. Distributions on the Underlying Certificates are made as described in the related Underlying Certificate Disclosure Documents.

8. Each Class is held from the Closing Date and is not exchanged in whole or in part.

When reading the tables and the related text, investors should bear in mind that the Modeling Assumptions, like any other stated assumptions, are unlikely to be entirely consistent with actual experience.

- For example, most of the Mortgage Loans will not have the characteristics assumed, many Distribution Dates will occur on a Business Day after the 16th or 20th day of the month, as applicable, and the Trustee may cause a termination of the Trust as described under “Description of the Securities — Termination” in this Supplement.
- In addition, distributions on the Securities are based on Certificate Factors and Calculated Certificate Factors, as applicable, which may not reflect actual receipts on the Trust Assets.

See “Description of the Securities — Distributions” in the Base Offering Circular.

Decrement Tables

Prepayments of mortgage loans are commonly measured by a prepayment standard or model. The model used in this Supplement, Prepayment Speed Assumption (“PSA”), is the standard prepayment assumption model of The Securities Industry and Financial Markets Association. PSA represents an assumed rate of prepayment each month relative to the then outstanding principal balance of the Mortgage Loans to which the model is applied. *See “Yield, Maturity and Prepayment Considerations — Standard Prepayment Assumption Models” in the Base Offering Circular.*

The decrement tables set forth below are based on the assumption that the Mortgage Loans prepay at the indicated percentages of PSA (the “PSA Prepayment Assumption Rates”). As used in the tables, each of the PSA Prepayment Assumption Rates reflects a percentage of the 100% PSA assumed prepayment rate. **The Mortgage Loans will not prepay at any of the PSA Prepayment Assumption Rates, and the timing of changes in the rate of prepayments actually experienced on the Mortgage Loans will not follow the pattern described for the PSA assumption.**

The decrement tables set forth below illustrate the percentage of the Original Class Principal Balance (or, in the case of a Notional Class, the original Class Notional Balance) that would remain outstanding following the distribution made each specified month for each Regular or MX Class, based on the assumption that the related Mortgage Loans prepay at the PSA Prepayment Assumption Rates. The percentages set forth in the following decrement tables have been rounded to the nearest whole percentage (including rounding down to zero).

The decrement tables also indicate the Weighted Average Life of each Class under each PSA Prepayment Assumption Rate. The Weighted Average Life of each Class is calculated by:

- (a) multiplying the net reduction, if any, of the Class Principal Balance (or the net reduction of the Class Notional Balance, in the case of a Notional Class) from one Distribution Date to the next Distribution Date by the number of years from the date of issuance thereof to the related Distribution Date,
- (b) summing the results, and
- (c) dividing the sum by the aggregate amount of the assumed net reductions in principal balance or notional balance, as applicable, referred to in clause (a).

The information shown for each Notional Class is for illustrative purposes only, as a Notional Class is not entitled to distributions of principal and has no Weighted Average Life. The Weighted Average Life shown for each Notional Class has been calculated on the assumption that a reduction in the Class Notional Balance thereof is a distribution of principal.

The Weighted Average Lives are likely to vary, perhaps significantly, from those set forth in the tables below due to the differences between the actual characteristics of the Mortgage Loans underlying the related Trust Assets and the Modeling Assumptions.

Percentages of Original Class Principal (or Class Notional) Balances and Weighted Average Lives

Security Group 1 PSA Prepayment Assumption Rates															
Distribution Date	Classes IK, IL, KA, KB, KC, KD, KE, KG and KH					Class KI					Classes KJ, KL, KM, KN, KQ, KU, KV and KX				
	0%	125%	175%	225%	400%	0%	125%	175%	225%	400%	0%	125%	175%	225%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	98	95	95	95	95	98	95	95	95	95	100	100	100	100	100
March 2022	96	85	85	85	85	96	86	86	86	86	100	100	100	100	100
March 2023	94	74	74	74	64	94	76	76	76	67	100	100	100	100	100
March 2024	91	63	63	63	44	92	66	66	66	48	100	100	100	100	100
March 2025	89	54	54	54	29	89	57	57	57	34	100	100	100	100	100
March 2026	86	45	45	45	18	87	48	48	48	24	100	100	100	100	100
March 2027	83	36	36	36	10	84	40	40	40	16	100	100	100	100	100
March 2028	80	29	29	29	4	82	33	33	33	10	100	100	100	100	100
March 2029	77	22	22	22	0	79	27	27	27	6	100	100	100	100	94
March 2030	74	16	16	16	0	76	22	22	22	4	100	100	100	100	69
March 2031	71	11	11	11	0	73	17	17	17	3	100	100	100	100	51
March 2032	67	7	7	7	0	69	13	13	13	2	100	100	100	100	37
March 2033	63	4	4	4	0	66	10	10	10	2	100	100	100	100	27
March 2034	60	1	1	1	0	62	7	7	7	1	100	100	100	100	20
March 2035	55	0	0	0	0	58	6	6	6	1	100	87	87	87	14
March 2036	51	0	0	0	0	54	5	5	5	1	100	71	71	71	10
March 2037	47	0	0	0	0	50	4	4	4	0	100	58	58	58	7
March 2038	42	0	0	0	0	45	3	3	3	0	100	47	47	47	5
March 2039	37	0	0	0	0	41	2	2	2	0	100	38	38	38	4
March 2040	31	0	0	0	0	36	2	2	2	0	100	31	31	31	3
March 2041	26	0	0	0	0	31	2	2	2	0	100	24	24	24	2
March 2042	20	0	0	0	0	25	1	1	1	0	100	19	19	19	1
March 2043	14	0	0	0	0	19	1	1	1	0	100	15	15	15	1
March 2044	7	0	0	0	0	13	1	1	1	0	100	11	11	11	1
March 2045	1	0	0	0	0	7	1	1	1	0	100	8	8	8	0
March 2046	0	0	0	0	0	3	0	0	0	0	53	6	6	6	0
March 2047	0	0	0	0	0	0	0	0	0	0	4	4	4	4	0
March 2048	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0
March 2049	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.1	5.9	5.9	5.9	4.0	15.8	6.8	6.8	6.8	4.5	26.1	18.7	18.7	18.7	12.0

PSA Prepayment Assumption Rates										
Distribution Date	Class KS					Class KY				
	0%	125%	175%	225%	400%	0%	125%	175%	225%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2021	100	100	95	91	74	98	95	95	95	95
March 2022	100	100	85	70	20	96	87	87	87	87
March 2023	100	100	73	46	0	94	77	77	77	69
March 2024	100	100	63	28	0	92	68	68	68	51
March 2025	100	100	55	15	0	90	59	59	59	38
March 2026	100	100	50	7	0	88	51	51	51	28
March 2027	100	100	47	2	0	85	44	44	44	21
March 2028	100	100	45	0	0	83	37	37	37	15
March 2029	100	100	44	0	0	80	31	31	31	11
March 2030	100	98	42	0	0	77	26	26	26	8
March 2031	100	94	40	0	0	74	22	22	22	6
March 2032	100	90	37	0	0	71	18	18	18	5
March 2033	100	84	35	0	0	68	15	15	15	3
March 2034	100	79	32	0	0	64	13	13	13	2
March 2035	100	73	29	0	0	61	10	10	10	2
March 2036	100	67	26	0	0	57	9	9	9	1
March 2037	100	60	23	0	0	53	7	7	7	1
March 2038	100	54	20	0	0	49	6	6	6	1
March 2039	100	48	17	0	0	44	5	5	5	0
March 2040	100	43	15	0	0	40	4	4	4	0
March 2041	100	37	13	0	0	35	3	3	3	0
March 2042	100	32	11	0	0	30	2	2	2	0
March 2043	100	27	9	0	0	24	2	2	2	0
March 2044	100	22	7	0	0	19	1	1	1	0
March 2045	100	17	5	0	0	13	1	1	1	0
March 2046	100	13	4	0	0	6	1	1	1	0
March 2047	97	9	3	0	0	0	0	0	0	0
March 2048	67	6	2	0	0	0	0	0	0	0
March 2049	34	3	1	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.5	19.1	9.8	3.1	1.4	16.4	7.5	7.5	7.5	5.0

Security Group 2 PSA Prepayment Assumption Rates					
Distribution Date	Classes EA, EB, EC, ED, EG, EH, EI, EJ, EK and EL				
	0%	250%	523%	800%	1,100%
Initial Percent . . .	100	100	100	100	100
March 2021	97	94	94	94	91
March 2022	95	83	79	63	46
March 2023	92	72	53	32	15
March 2024	89	61	36	16	5
March 2025	86	52	24	8	2
March 2026	83	43	16	4	0
March 2027	80	35	11	2	0
March 2028	76	29	7	1	0
March 2029	73	23	5	0	0
March 2030	69	18	3	0	0
March 2031	65	15	2	0	0
March 2032	61	11	1	0	0
March 2033	57	9	1	0	0
March 2034	53	6	1	0	0
March 2035	49	5	0	0	0
March 2036	44	3	0	0	0
March 2037	39	2	0	0	0
March 2038	34	1	0	0	0
March 2039	29	0	0	0	0
March 2040	24	0	0	0	0
March 2041	18	0	0	0	0
March 2042	12	0	0	0	0
March 2043	6	0	0	0	0
March 2044	0	0	0	0	0
March 2045	0	0	0	0	0
March 2046	0	0	0	0	0
March 2047	0	0	0	0	0
March 2048	0	0	0	0	0
March 2049	0	0	0	0	0
March 2050	0	0	0	0	0
Weighted Average Life (years)	13.8	6.1	3.8	2.7	2.1

Security Group 3 PSA Prepayment Assumption Rates															
Distribution Date	Class JE					Class JG					Class JZ				
	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	97	94	94	94	94	100	100	100	100	100	103	103	95	89	73
March 2022	94	84	84	84	84	100	100	100	100	100	106	106	81	65	17
March 2023	92	73	73	73	64	100	100	100	100	100	109	109	65	37	0
March 2024	88	62	62	62	46	100	100	100	100	100	113	113	54	18	0
March 2025	85	53	53	53	33	100	100	100	100	100	116	116	47	7	0
March 2026	82	44	44	44	23	100	100	100	100	100	120	120	44	1	0
March 2027	78	35	35	35	16	100	100	100	100	100	123	123	43	0	0
March 2028	75	28	28	28	10	100	100	100	100	100	127	124	42	0	0
March 2029	71	22	22	22	6	100	100	100	100	100	131	123	41	0	0
March 2030	67	17	17	17	3	100	100	100	100	100	135	119	38	0	0
March 2031	63	13	13	13	1	100	100	100	100	100	139	113	35	0	0
March 2032	59	10	10	10	0	100	100	100	100	85	143	107	32	0	0
March 2033	54	7	7	7	0	100	100	100	100	62	148	100	29	0	0
March 2034	50	5	5	5	0	100	100	100	100	45	152	92	26	0	0
March 2035	45	3	3	3	0	100	100	100	100	32	157	85	23	0	0
March 2036	40	1	1	1	0	100	100	100	100	23	162	77	21	0	0
March 2037	35	0	0	0	0	100	99	99	99	17	166	69	18	0	0
March 2038	29	0	0	0	0	100	79	79	79	12	171	62	15	0	0
March 2039	23	0	0	0	0	100	63	63	63	8	177	54	13	0	0
March 2040	17	0	0	0	0	100	49	49	49	6	182	47	11	0	0
March 2041	11	0	0	0	0	100	38	38	38	4	188	41	9	0	0
March 2042	5	0	0	0	0	100	29	29	29	3	193	35	8	0	0
March 2043	0	0	0	0	0	58	22	22	22	2	199	29	6	0	0
March 2044	0	0	0	0	0	16	16	16	16	1	183	23	5	0	0
March 2045	0	0	0	0	0	11	11	11	11	1	156	18	4	0	0
March 2046	0	0	0	0	0	8	8	8	8	0	128	14	3	0	0
March 2047	0	0	0	0	0	5	5	5	5	0	99	10	2	0	0
March 2048	0	0	0	0	0	3	3	3	3	0	67	6	1	0	0
March 2049	0	0	0	0	0	1	1	1	1	0	35	2	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.1	6.0	6.0	6.0	4.3	23.5	20.7	20.7	20.7	14.5	26.9	18.4	8.6	2.7	1.4

Security Group 4 PSA Prepayment Assumption Rates					
Distribution Date	Classes I, IA, LB, LC, LD, LE, LG and LI				
	0%	300%	600%	900%	1,200%
Initial Percent . . .	100	100	100	100	100
March 2021	98	83	81	70	54
March 2022	96	65	56	34	18
March 2023	94	49	35	15	5
March 2024	92	37	22	7	1
March 2025	90	27	14	3	0
March 2026	87	20	9	1	0
March 2027	85	14	5	0	0
March 2028	82	11	3	0	0
March 2029	79	8	2	0	0
March 2030	76	6	1	0	0
March 2031	73	4	1	0	0
March 2032	70	3	0	0	0
March 2033	66	2	0	0	0
March 2034	62	1	0	0	0
March 2035	58	1	0	0	0
March 2036	54	1	0	0	0
March 2037	50	0	0	0	0
March 2038	45	0	0	0	0
March 2039	40	0	0	0	0
March 2040	35	0	0	0	0
March 2041	30	0	0	0	0
March 2042	24	0	0	0	0
March 2043	18	0	0	0	0
March 2044	12	0	0	0	0
March 2045	5	0	0	0	0
March 2046	2	0	0	0	0
March 2047	1	0	0	0	0
March 2048	0	0	0	0	0
March 2049	0	0	0	0	0
March 2050	0	0	0	0	0
Weighted Average Life (years)	15.8	3.8	2.8	1.8	1.3

Security Group 5 PSA Prepayment Assumption Rates																				
Distribution Date	Class DC					Class DE					Class DI					Class DP				
	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	97	95	95	95	95	100	100	100	100	100	97	94	92	91	87	98	95	95	95	95
March 2022	95	85	85	85	85	100	100	100	100	100	94	83	76	72	60	95	86	86	86	86
March 2023	92	74	74	74	67	100	100	100	100	100	92	69	57	49	28	92	76	76	76	69
March 2024	89	63	63	63	48	100	100	100	100	100	88	56	40	30	4	89	66	66	66	51
March 2025	86	53	53	53	34	100	100	100	100	100	85	44	25	13	0	86	56	56	56	38
March 2026	82	44	44	44	24	100	100	100	100	100	82	33	12	0	0	83	48	48	48	28
March 2027	79	36	36	36	16	100	100	100	100	100	78	23	0	0	0	80	40	40	40	21
March 2028	75	29	29	29	10	100	100	100	100	100	75	14	0	0	0	77	33	33	33	15
March 2029	72	22	22	22	6	100	100	100	100	100	71	5	0	0	0	73	27	27	27	11
March 2030	68	17	17	17	2	100	100	100	100	100	67	0	0	0	0	70	22	22	22	8
March 2031	64	13	13	13	0	100	100	100	100	100	63	0	0	0	0	66	18	18	18	6
March 2032	60	9	9	9	0	100	100	100	100	74	58	0	0	0	0	62	15	15	15	4
March 2033	55	7	7	7	0	100	100	100	100	54	54	0	0	0	0	58	12	12	12	3
March 2034	51	4	4	4	0	100	100	100	100	39	49	0	0	0	0	54	10	10	10	2
March 2035	46	2	2	2	0	100	100	100	100	28	44	0	0	0	0	49	8	8	8	2
March 2036	41	0	0	0	0	100	100	100	100	20	38	0	0	0	0	45	6	6	6	1
March 2037	36	0	0	0	0	100	86	86	86	15	33	0	0	0	0	40	5	5	5	1
March 2038	31	0	0	0	0	100	68	68	68	10	27	0	0	0	0	35	4	4	4	1
March 2039	25	0	0	0	0	100	54	54	54	7	21	0	0	0	0	30	3	3	3	0
March 2040	19	0	0	0	0	100	42	42	42	5	15	0	0	0	0	24	3	3	3	0
March 2041	13	0	0	0	0	100	33	33	33	4	8	0	0	0	0	19	2	2	2	0
March 2042	7	0	0	0	0	100	25	25	25	2	1	0	0	0	0	13	2	2	2	0
March 2043	0	0	0	0	0	100	19	19	19	2	0	0	0	0	0	6	1	1	1	0
March 2044	0	0	0	0	0	14	14	14	14	1	0	0	0	0	0	1	1	1	1	0
March 2045	0	0	0	0	0	10	10	10	10	1	0	0	0	0	0	1	1	1	1	0
March 2046	0	0	0	0	0	7	7	7	7	0	0	0	0	0	0	0	0	0	0	0
March 2047	0	0	0	0	0	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0
March 2048	0	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0
March 2049	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.4	6.1	6.1	6.1	4.4	23.9	20.2	20.2	20.2	14.1	12.9	4.7	3.5	3.1	2.3	14.0	6.9	6.9	6.9	5.0

Security Group 5 PSA Prepayment Assumption Rates															
Distribution Date	Class DY					Class ID					Class ZD				
	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	100	100	100	100	100	98	96	95	94	92	103	103	96	92	79
March 2022	100	100	100	100	100	97	90	86	83	76	105	105	84	70	28
March 2023	100	100	100	100	100	95	81	74	70	57	108	108	67	42	0
March 2024	100	100	100	100	100	93	73	64	58	42	111	111	55	22	0
March 2025	100	100	100	100	79	91	66	55	48	31	113	113	48	9	0
March 2026	100	100	100	99	58	89	60	47	40	23	116	116	43	2	0
March 2027	100	100	100	82	43	87	54	40	33	17	119	119	42	0	0
March 2028	100	100	86	68	32	85	48	34	27	13	122	121	41	0	0
March 2029	100	100	73	56	23	83	43	29	22	9	125	119	40	0	0
March 2030	100	97	62	46	17	80	39	25	18	7	128	116	37	0	0
March 2031	100	86	53	38	13	78	34	21	15	5	132	111	35	0	0
March 2032	100	77	45	31	9	75	31	18	12	4	135	105	32	0	0
March 2033	100	68	38	25	7	72	27	15	10	3	138	98	29	0	0
March 2034	100	60	32	20	5	69	24	13	8	2	142	91	26	0	0
March 2035	100	53	27	16	4	66	21	11	7	1	145	83	23	0	0
March 2036	100	46	22	13	3	63	19	9	5	1	149	76	20	0	0
March 2037	100	40	18	11	2	60	16	7	4	1	153	68	18	0	0
March 2038	100	35	15	8	1	56	14	6	3	1	157	61	15	0	0
March 2039	100	30	12	7	1	53	12	5	3	0	161	54	13	0	0
March 2040	100	26	10	5	1	49	10	4	2	0	165	47	11	0	0
March 2041	100	22	8	4	0	45	9	3	2	0	169	40	9	0	0
March 2042	100	18	6	3	0	41	7	3	1	0	173	34	8	0	0
March 2043	91	15	5	2	0	36	6	2	1	0	178	29	6	0	0
March 2044	80	12	4	2	0	32	5	2	1	0	178	23	5	0	0
March 2045	68	9	3	1	0	27	4	1	0	0	152	18	4	0	0
March 2046	56	7	2	1	0	22	3	1	0	0	125	14	3	0	0
March 2047	43	5	1	1	0	17	2	1	0	0	96	10	2	0	0
March 2048	29	3	1	0	0	12	1	0	0	0	65	6	1	0	0
March 2049	15	1	0	0	0	6	1	0	0	0	34	3	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	26.3	16.6	12.7	10.9	7.5	18.3	9.5	7.2	6.2	4.4	27.1	18.5	8.6	2.9	1.6

Security Group 6 PSA Prepayment Assumption Rates																				
Distribution Date	Classes A, FA and SA					Classes B, GB, GC, GD, GE and GI					Classes BA, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BP, BQ, BS, BT, BU, BV, BW, BX and BY					Classes FB and SB				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	99	96	95	94	92	97	94	94	94	94	98	95	95	95	95	99	96	95	94	92
March 2022	97	89	86	84	76	95	83	83	83	83	95	85	85	85	85	97	89	86	84	76
March 2023	95	79	75	70	57	92	70	70	70	60	93	74	74	74	65	95	79	75	70	57
March 2024	94	71	64	58	43	89	57	57	57	39	91	63	63	63	47	94	71	64	58	43
March 2025	92	63	55	48	32	86	46	46	46	24	88	53	53	53	34	92	63	55	48	32
March 2026	90	56	47	40	23	83	35	35	35	13	85	44	44	44	24	90	56	47	40	23
March 2027	88	49	41	33	17	80	26	26	26	4	82	35	35	35	16	88	49	41	33	17
March 2028	86	44	35	27	13	76	18	18	18	0	79	28	28	28	11	86	44	35	27	13
March 2029	84	39	30	23	9	73	11	11	11	0	76	23	23	23	7	84	39	30	23	9
March 2030	81	34	25	19	7	69	6	6	6	0	73	18	18	18	4	81	34	25	19	7
March 2031	79	30	22	15	5	65	1	1	1	0	69	14	14	14	1	79	30	21	15	5
March 2032	76	26	18	13	4	61	0	0	0	0	66	10	10	10	0	76	26	18	13	4
March 2033	74	23	15	10	3	56	0	0	0	0	62	8	8	8	0	74	23	15	10	3
March 2034	71	20	13	8	2	52	0	0	0	0	58	5	5	5	0	71	20	13	8	2
March 2035	68	17	11	7	1	47	0	0	0	0	54	3	3	3	0	68	17	11	7	1
March 2036	65	15	9	5	1	42	0	0	0	0	49	2	2	2	0	65	15	9	5	1
March 2037	61	13	8	4	1	37	0	0	0	0	45	0	0	0	0	61	13	8	4	1
March 2038	58	11	6	3	1	31	0	0	0	0	40	0	0	0	0	58	11	6	3	1
March 2039	54	9	5	3	0	25	0	0	0	0	35	0	0	0	0	54	9	5	3	0
March 2040	51	8	4	2	0	19	0	0	0	0	29	0	0	0	0	51	8	4	2	0
March 2041	47	7	3	2	0	13	0	0	0	0	24	0	0	0	0	47	6	3	2	0
March 2042	42	5	3	1	0	6	0	0	0	0	18	0	0	0	0	42	5	3	1	0
March 2043	38	4	2	1	0	0	0	0	0	0	12	0	0	0	0	38	4	2	1	0
March 2044	33	3	2	1	0	0	0	0	0	0	6	0	0	0	0	33	3	2	1	0
March 2045	28	3	1	1	0	0	0	0	0	0	0	0	0	0	0	28	3	1	1	0
March 2046	23	2	1	0	0	0	0	0	0	0	0	0	0	0	0	23	2	1	0	0
March 2047	18	1	1	0	0	0	0	0	0	0	0	0	0	0	0	18	1	1	0	0
March 2048	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0
March 2049	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.6	8.7	7.3	6.3	4.4	13.4	5.0	5.0	5.0	3.7	14.8	6.1	6.1	6.1	4.4	18.6	8.7	7.3	6.2	4.4

Security Group 6 PSA Prepayment Assumption Rates															
Distribution Date	Classes FG, G and SG					Class GA					Class GF				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	99	96	95	94	92	99	96	95	94	92	99	96	95	94	92
March 2022	97	89	86	84	76	97	89	86	84	76	97	89	86	84	76
March 2023	95	79	75	70	57	95	79	75	70	57	95	79	75	70	57
March 2024	94	71	64	58	43	94	71	64	58	43	94	71	64	58	43
March 2025	92	63	55	48	32	92	63	55	48	32	92	63	55	48	32
March 2026	90	56	47	40	23	90	56	47	40	23	90	56	47	40	23
March 2027	88	49	41	33	17	88	49	41	33	17	88	49	41	33	17
March 2028	86	44	35	27	13	86	44	35	27	13	86	44	35	27	13
March 2029	84	39	30	23	9	84	39	30	23	9	84	39	30	23	9
March 2030	81	34	25	19	7	81	34	25	19	7	81	34	25	19	7
March 2031	79	30	22	15	5	79	30	22	15	5	79	30	21	15	5
March 2032	76	26	18	13	4	76	26	18	13	4	76	26	18	13	4
March 2033	74	23	15	10	3	74	23	15	10	3	74	23	15	10	3
March 2034	71	20	13	8	2	71	20	13	8	2	71	20	13	8	2
March 2035	68	17	11	7	1	68	17	11	7	1	68	17	11	7	1
March 2036	65	15	9	5	1	65	15	9	5	1	65	15	9	5	1
March 2037	61	13	8	4	1	61	13	8	4	1	61	13	8	4	1
March 2038	58	11	6	3	1	58	11	6	3	1	58	11	6	3	1
March 2039	54	9	5	3	0	54	9	5	3	0	54	9	5	3	0
March 2040	51	8	4	2	0	51	8	4	2	0	51	8	4	2	0
March 2041	47	7	3	2	0	47	7	3	2	0	47	7	3	2	0
March 2042	42	5	3	1	0	42	5	3	1	0	42	5	3	1	0
March 2043	38	4	2	1	0	38	4	2	1	0	38	4	2	1	0
March 2044	33	3	2	1	0	33	3	2	1	0	33	3	2	1	0
March 2045	28	3	1	1	0	28	3	1	1	0	28	3	1	1	0
March 2046	23	2	1	0	0	23	2	1	0	0	23	2	1	0	0
March 2047	18	1	1	0	0	18	1	1	0	0	18	1	1	0	0
March 2048	12	1	0	0	0	12	1	0	0	0	12	1	0	0	0
March 2049	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	18.6	8.7	7.3	6.3	4.4	18.6	8.7	7.3	6.3	4.4	18.6	8.7	7.3	6.3	4.4

PSA Prepayment Assumption Rates															
Distribution Date	Classes GH, GJ, GK, GL, GM and IG					Class GS					Class GU				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	98	94	94	94	94	99	96	95	94	92	100	100	100	100	100
March 2022	95	85	85	85	85	97	89	86	84	76	100	100	100	100	100
March 2023	93	72	72	72	63	95	79	75	70	57	100	100	100	100	100
March 2024	90	61	61	61	44	94	71	64	58	43	100	100	100	100	100
March 2025	87	50	50	50	30	92	63	55	48	32	100	100	100	100	100
March 2026	84	41	41	41	20	90	56	47	40	23	100	100	100	100	100
March 2027	81	32	32	32	12	88	49	41	33	17	100	100	100	100	100
March 2028	78	25	25	25	6	86	44	35	27	13	100	100	100	100	75
March 2029	75	18	18	18	2	84	39	30	23	9	100	100	100	100	21
March 2030	71	13	13	13	0	81	34	25	19	7	100	100	100	100	0
March 2031	68	9	9	9	0	79	30	21	15	5	100	100	100	100	0
March 2032	64	6	6	6	0	76	26	18	13	4	100	70	70	70	0
March 2033	60	3	3	3	0	74	23	15	10	3	100	33	33	33	0
March 2034	55	0	0	0	0	71	20	13	8	2	100	2	2	2	0
March 2035	51	0	0	0	0	68	17	11	7	1	100	0	0	0	0
March 2036	46	0	0	0	0	65	15	9	5	1	100	0	0	0	0
March 2037	42	0	0	0	0	61	13	8	4	1	100	0	0	0	0
March 2038	37	0	0	0	0	58	11	6	3	1	100	0	0	0	0
March 2039	31	0	0	0	0	54	9	5	3	0	100	0	0	0	0
March 2040	26	0	0	0	0	51	8	4	2	0	100	0	0	0	0
March 2041	20	0	0	0	0	47	7	3	2	0	100	0	0	0	0
March 2042	14	0	0	0	0	42	5	3	1	0	100	0	0	0	0
March 2043	7	0	0	0	0	38	4	2	1	0	91	0	0	0	0
March 2044	1	0	0	0	0	33	3	2	1	0	7	0	0	0	0
March 2045	0	0	0	0	0	28	3	1	1	0	0	0	0	0	0
March 2046	0	0	0	0	0	23	2	1	0	0	0	0	0	0	0
March 2047	0	0	0	0	0	18	1	1	0	0	0	0	0	0	0
March 2048	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0
March 2049	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	14.2	5.6	5.6	5.6	4.1	18.6	8.7	7.3	6.3	4.4	23.5	12.6	12.6	12.6	8.5

Security Group 6 PSA Prepayment Assumption Rates															
Distribution Date	Class GW					Class GY					Class GZ				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	100	100	100	100	100	100	100	100	100	100	103	103	97	92	75
March 2022	100	100	100	100	100	100	100	100	100	100	105	105	87	68	15
March 2023	100	100	100	100	100	100	100	100	100	100	108	108	73	40	0
March 2024	100	100	100	100	100	100	100	100	100	100	111	111	64	20	0
March 2025	100	100	100	100	100	100	100	100	100	100	113	113	58	7	0
March 2026	100	100	100	100	100	100	100	100	100	100	116	116	55	1	0
March 2027	100	100	100	100	100	100	100	100	100	100	119	119	55	0	0
March 2028	100	100	100	100	100	100	100	100	100	100	122	120	54	0	0
March 2029	100	100	100	100	100	100	100	100	100	100	125	117	52	0	0
March 2030	100	100	100	100	71	100	100	100	100	100	128	113	49	0	0
March 2031	100	100	100	100	28	100	100	100	100	100	132	107	46	0	0
March 2032	100	100	100	100	0	100	100	100	100	95	135	101	42	0	0
March 2033	100	100	100	100	0	100	100	100	100	69	138	93	38	0	0
March 2034	100	100	100	100	0	100	100	100	100	50	142	85	34	0	0
March 2035	100	66	66	66	0	100	100	100	100	36	145	78	30	0	0
March 2036	100	35	35	35	0	100	100	100	100	26	149	70	27	0	0
March 2037	100	10	10	10	0	100	100	100	100	19	153	62	23	0	0
March 2038	100	0	0	0	0	100	88	88	88	13	157	55	20	0	0
March 2039	100	0	0	0	0	100	70	70	70	10	161	48	17	0	0
March 2040	100	0	0	0	0	100	55	55	55	7	165	42	15	0	0
March 2041	100	0	0	0	0	100	43	43	43	5	169	35	12	0	0
March 2042	100	0	0	0	0	100	33	33	33	3	173	30	10	0	0
March 2043	100	0	0	0	0	100	25	25	25	2	178	25	8	0	0
March 2044	100	0	0	0	0	100	18	18	18	1	182	20	6	0	0
March 2045	0	0	0	0	0	78	13	13	13	1	187	15	5	0	0
March 2046	0	0	0	0	0	9	9	9	9	1	169	11	4	0	0
March 2047	0	0	0	0	0	6	6	6	6	0	130	8	2	0	0
March 2048	0	0	0	0	0	3	3	3	3	0	89	5	1	0	0
March 2049	0	0	0	0	0	1	1	1	1	0	46	2	1	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	24.5	15.6	15.6	15.6	10.5	25.4	21.1	21.1	21.1	14.9	27.8	17.9	10.3	2.8	1.4

Security Group 7 PSA Prepayment Assumption Rates															
Distribution Date	Class AB					Class AC					Class ZA				
	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%	0%	125%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	97	95	95	95	95	100	100	100	100	100	103	103	96	92	79
March 2022	94	86	86	86	86	100	100	100	100	100	106	106	84	69	26
March 2023	92	74	74	74	67	100	100	100	100	100	109	109	68	41	0
March 2024	89	64	64	64	48	100	100	100	100	100	113	113	56	21	0
March 2025	85	54	54	54	35	100	100	100	100	100	116	116	48	8	0
March 2026	82	45	45	45	24	100	100	100	100	100	120	120	44	2	0
March 2027	79	36	36	36	17	100	100	100	100	100	123	123	43	0	0
March 2028	75	29	29	29	11	100	100	100	100	100	127	125	43	0	0
March 2029	71	23	23	23	7	100	100	100	100	100	131	123	41	0	0
March 2030	67	18	18	18	3	100	100	100	100	100	135	120	39	0	0
March 2031	63	14	14	14	1	100	100	100	100	100	139	115	36	0	0
March 2032	59	10	10	10	0	100	100	100	100	88	143	108	33	0	0
March 2033	54	7	7	7	0	100	100	100	100	64	148	101	30	0	0
March 2034	50	5	5	5	0	100	100	100	100	47	152	94	27	0	0
March 2035	45	3	3	3	0	100	100	100	100	34	157	86	24	0	0
March 2036	40	1	1	1	0	100	100	100	100	24	162	78	21	0	0
March 2037	35	0	0	0	0	100	100	100	100	17	166	70	18	0	0
March 2038	29	0	0	0	0	100	81	81	81	12	171	63	16	0	0
March 2039	24	0	0	0	0	100	64	64	64	9	177	55	14	0	0
March 2040	18	0	0	0	0	100	50	50	50	6	182	48	11	0	0
March 2041	11	0	0	0	0	100	39	39	39	4	188	42	10	0	0
March 2042	5	0	0	0	0	100	30	30	30	3	193	35	8	0	0
March 2043	0	0	0	0	0	65	22	22	22	2	199	30	6	0	0
March 2044	0	0	0	0	0	17	17	17	17	1	184	24	5	0	0
March 2045	0	0	0	0	0	12	12	12	12	1	158	19	4	0	0
March 2046	0	0	0	0	0	8	8	8	8	1	129	14	3	0	0
March 2047	0	0	0	0	0	5	5	5	5	0	99	10	2	0	0
March 2048	0	0	0	0	0	3	3	3	3	0	68	6	1	0	0
March 2049	0	0	0	0	0	1	1	1	1	0	35	3	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.2	6.1	6.1	6.1	4.4	23.6	20.8	20.8	20.8	14.7	26.9	18.5	8.8	2.8	1.5

Security Group 8 PSA Prepayment Assumption Rates															
Distribution Date	Classes FH, HA and SH					Classes HD, HE, HG and HK					Class HJ				
	0%	225%	285%	381%	600%	0%	225%	285%	381%	600%	0%	225%	285%	381%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	99	95	94	92	88	100	100	100	96	68	100	100	81	60	60
March 2022	97	84	81	76	65	100	100	100	79	0	100	100	40	0	0
March 2023	96	72	66	58	41	100	100	98	36	0	100	100	0	0	0
March 2024	94	61	54	44	26	100	100	87	12	0	100	100	0	0	0
March 2025	92	52	44	33	16	100	100	81	2	0	100	100	0	0	0
March 2026	91	44	35	25	10	100	100	78	0	0	100	99	0	0	0
March 2027	89	37	29	19	6	100	100	74	0	0	100	87	0	0	0
March 2028	87	31	23	14	4	100	100	67	0	0	100	66	0	0	0
March 2029	85	26	19	11	2	100	100	60	0	0	100	40	0	0	0
March 2030	83	22	15	8	2	100	100	53	0	0	100	11	0	0	0
March 2031	80	18	12	6	1	100	93	46	0	0	100	0	0	0	0
March 2032	78	15	10	4	1	100	81	39	0	0	100	0	0	0	0
March 2033	75	13	8	3	0	100	71	33	0	0	100	0	0	0	0
March 2034	72	11	6	2	0	100	61	28	0	0	100	0	0	0	0
March 2035	69	9	5	2	0	100	52	23	0	0	100	0	0	0	0
March 2036	66	7	4	1	0	100	44	19	0	0	100	0	0	0	0
March 2037	63	6	3	1	0	100	37	15	0	0	100	0	0	0	0
March 2038	60	5	2	1	0	100	31	12	0	0	100	0	0	0	0
March 2039	56	4	2	0	0	100	25	10	0	0	100	0	0	0	0
March 2040	52	3	1	0	0	100	20	8	0	0	100	0	0	0	0
March 2041	48	2	1	0	0	100	16	6	0	0	100	0	0	0	0
March 2042	44	2	1	0	0	100	13	5	0	0	100	0	0	0	0
March 2043	40	1	1	0	0	100	10	3	0	0	100	0	0	0	0
March 2044	35	1	0	0	0	100	8	3	0	0	100	0	0	0	0
March 2045	30	1	0	0	0	100	6	2	0	0	100	0	0	0	0
March 2046	24	1	0	0	0	100	4	1	0	0	100	0	0	0	0
March 2047	19	0	0	0	0	100	3	1	0	0	100	0	0	0	0
March 2048	13	0	0	0	0	96	1	0	0	0	0	0	0	0	0
March 2049	7	0	0	0	0	49	1	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	19.0	6.7	5.7	4.5	3.1	29.0	16.3	11.0	2.8	1.3	27.5	8.5	1.7	1.1	1.1

PSA Prepayment Assumption Rates										
Distribution Date	Class HM					Class HZ				
	0%	225%	285%	381%	600%	0%	225%	285%	381%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
March 2021	98	93	93	93	93	102	102	102	102	102
March 2022	97	81	81	81	80	104	104	104	104	0
March 2023	95	65	65	65	51	106	106	106	106	0
March 2024	93	52	52	52	32	108	108	108	108	0
March 2025	91	40	40	40	20	111	111	111	111	0
March 2026	89	31	31	31	13	113	113	113	0	0
March 2027	86	23	23	23	8	115	115	115	0	0
March 2028	84	17	17	17	5	117	117	117	0	0
March 2029	81	13	13	13	3	120	120	120	0	0
March 2030	79	10	10	10	2	122	122	122	0	0
March 2031	76	7	7	7	1	125	125	125	0	0
March 2032	73	5	5	5	1	127	127	127	0	0
March 2033	69	4	4	4	0	130	130	130	0	0
March 2034	66	3	3	3	0	132	132	132	0	0
March 2035	62	2	2	2	0	135	135	135	0	0
March 2036	59	2	2	2	0	138	138	138	0	0
March 2037	55	1	1	1	0	140	140	140	0	0
March 2038	51	1	1	1	0	143	143	143	0	0
March 2039	46	1	1	1	0	146	146	146	0	0
March 2040	41	0	0	0	0	149	149	149	0	0
March 2041	36	0	0	0	0	152	152	152	0	0
March 2042	31	0	0	0	0	155	155	155	0	0
March 2043	26	0	0	0	0	158	158	158	0	0
March 2044	20	0	0	0	0	162	162	162	0	0
March 2045	14	0	0	0	0	165	165	165	0	0
March 2046	7	0	0	0	0	168	168	168	0	0
March 2047	0	0	0	0	0	172	172	172	0	0
March 2048	0	0	0	0	0	175	175	175	0	0
March 2049	0	0	0	0	0	179	179	179	0	0
March 2050	0	0	0	0	0	0	0	0	0	0
Weighted Average										
Life (years)	16.7	5.0	5.0	5.0	3.6	30.0	29.8	29.7	5.7	2.0

Security Group 9 PSA Prepayment Assumption Rates					
Distribution Date	Class IA				
	0%	100%	227%	350%	500%
Initial Percent	100	100	100	100	100
March 2021	93	87	79	70	61
March 2022	87	75	61	48	38
March 2023	79	63	46	35	24
March 2024	72	53	36	25	15
March 2025	64	43	28	18	10
March 2026	56	35	21	12	6
March 2027	50	29	16	9	4
March 2028	45	26	13	6	2
March 2029	42	22	10	5	2
March 2030	38	20	8	3	1
March 2031	33	17	7	3	1
March 2032	30	14	5	2	0
March 2033	27	12	4	1	0
March 2034	24	10	3	1	0
March 2035	21	8	2	1	0
March 2036	18	7	2	0	0
March 2037	15	5	1	0	0
March 2038	11	4	1	0	0
March 2039	8	2	0	0	0
March 2040	5	1	0	0	0
March 2041	3	1	0	0	0
March 2042	2	1	0	0	0
March 2043	2	0	0	0	0
March 2044	1	0	0	0	0
March 2045	1	0	0	0	0
March 2046	0	0	0	0	0
March 2047	0	0	0	0	0
Weighted Average Life (years)	8.8	5.9	3.9	2.9	2.1

Security Group 10 PSA Prepayment Assumption Rates																				
Distribution Date	Classes FI and UG					Classes IF and UK					Classes UL and WI					Class VI				
	0%	150%	300%	450%	600%	0%	150%	300%	450%	600%	0%	150%	300%	450%	600%	0%	150%	300%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	99	96	94	92	89	99	96	93	91	88	99	95	92	89	86	99	96	93	91	88
March 2022	97	89	81	74	67	97	88	80	72	65	97	87	78	69	61	97	88	80	72	65
March 2023	95	79	66	53	43	95	79	65	52	41	95	78	63	50	38	95	79	65	52	41
March 2024	94	71	53	38	27	94	70	52	37	26	94	69	50	36	24	94	70	52	37	26
March 2025	92	63	42	27	17	92	62	42	27	16	92	61	40	25	15	92	62	42	27	16
March 2026	90	56	34	19	10	90	55	33	19	10	90	54	32	18	9	90	55	33	19	10
March 2027	88	49	27	14	6	88	49	27	13	6	88	48	26	13	6	88	49	27	13	6
March 2028	86	44	21	10	4	86	43	21	10	4	86	43	21	9	4	86	43	21	10	4
March 2029	84	39	17	7	3	84	38	17	7	2	84	38	16	6	2	84	38	17	7	2
March 2030	81	34	14	5	2	81	34	13	5	2	81	33	13	5	1	81	34	13	5	2
March 2031	79	30	11	3	1	79	30	11	3	1	79	29	10	3	1	79	30	11	3	1
March 2032	76	26	8	2	1	76	26	8	2	1	76	26	8	2	1	76	26	8	2	1
March 2033	74	23	7	2	0	74	23	7	2	0	74	22	6	2	0	74	23	7	2	0
March 2034	71	20	5	1	0	71	20	5	1	0	71	19	5	1	0	71	20	5	1	0
March 2035	68	17	4	1	0	68	17	4	1	0	68	17	4	1	0	68	17	4	1	0
March 2036	65	15	3	1	0	65	15	3	1	0	65	15	3	1	0	65	15	3	1	0
March 2037	61	13	2	0	0	61	13	2	0	0	61	12	2	0	0	61	13	2	0	0
March 2038	58	11	2	0	0	58	11	2	0	0	58	11	2	0	0	58	11	2	0	0
March 2039	54	9	1	0	0	54	9	1	0	0	54	9	1	0	0	54	9	1	0	0
March 2040	51	8	1	0	0	51	8	1	0	0	51	8	1	0	0	51	8	1	0	0
March 2041	47	6	1	0	0	47	6	1	0	0	47	6	1	0	0	47	6	1	0	0
March 2042	42	5	1	0	0	42	5	1	0	0	42	5	1	0	0	42	5	1	0	0
March 2043	38	4	0	0	0	38	4	0	0	0	38	4	0	0	0	38	4	0	0	0
March 2044	33	3	0	0	0	33	3	0	0	0	33	3	0	0	0	33	3	0	0	0
March 2045	28	3	0	0	0	28	3	0	0	0	28	2	0	0	0	28	3	0	0	0
March 2046	23	2	0	0	0	23	2	0	0	0	23	2	0	0	0	23	2	0	0	0
March 2047	18	1	0	0	0	18	1	0	0	0	18	1	0	0	0	18	1	0	0	0
March 2048	12	1	0	0	0	12	1	0	0	0	12	1	0	0	0	12	1	0	0	0
March 2049	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.6	8.7	5.5	4.0	3.2	18.6	8.6	5.4	3.9	3.1	18.6	8.5	5.3	3.8	3.0	18.6	8.6	5.4	3.9	3.1

Security Group 11 PSA Prepayment Assumption Rates															
Distribution Date	Classes IQ and UJ					Class IV					Classes QI and UH				
	0%	150%	300%	450%	600%	0%	150%	300%	450%	600%	0%	150%	300%	450%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	98	96	93	90	88	98	96	93	91	89	98	96	94	91	89
March 2022	97	88	80	72	65	97	88	80	73	66	97	88	81	74	67
March 2023	95	78	64	52	41	95	79	65	52	42	95	79	65	53	42
March 2024	93	70	51	37	26	93	70	52	37	26	93	70	52	38	26
March 2025	91	62	41	26	16	91	62	41	27	16	91	62	42	27	17
March 2026	89	55	33	19	10	89	55	33	19	10	89	55	33	19	10
March 2027	87	48	26	13	6	87	49	26	13	6	87	49	27	14	6
March 2028	85	43	21	9	4	85	43	21	10	4	85	43	21	10	4
March 2029	83	38	17	7	2	83	38	17	7	2	83	38	17	7	2
March 2030	80	33	13	5	1	80	33	13	5	1	80	33	13	5	2
March 2031	78	29	10	3	1	78	29	10	3	1	78	29	10	3	1
March 2032	75	25	8	2	1	75	25	8	2	1	75	25	8	2	1
March 2033	72	22	6	2	0	72	22	6	2	0	72	22	6	2	0
March 2034	69	19	5	1	0	69	19	5	1	0	69	19	5	1	0
March 2035	66	17	4	1	0	66	17	4	1	0	66	17	4	1	0
March 2036	63	14	3	1	0	63	14	3	1	0	63	14	3	1	0
March 2037	60	12	2	0	0	60	12	2	0	0	60	12	2	0	0
March 2038	56	10	2	0	0	56	10	2	0	0	56	10	2	0	0
March 2039	53	9	1	0	0	53	9	1	0	0	53	9	1	0	0
March 2040	49	7	1	0	0	49	7	1	0	0	49	7	1	0	0
March 2041	45	6	1	0	0	45	6	1	0	0	45	6	1	0	0
March 2042	41	5	1	0	0	41	5	1	0	0	41	5	1	0	0
March 2043	36	4	0	0	0	36	4	0	0	0	36	4	0	0	0
March 2044	32	3	0	0	0	32	3	0	0	0	32	3	0	0	0
March 2045	27	2	0	0	0	27	2	0	0	0	27	2	0	0	0
March 2046	22	2	0	0	0	22	2	0	0	0	22	2	0	0	0
March 2047	17	1	0	0	0	17	1	0	0	0	17	1	0	0	0
March 2048	12	1	0	0	0	12	1	0	0	0	12	1	0	0	0
March 2049	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	18.3	8.5	5.4	3.9	3.1	18.3	8.5	5.4	4.0	3.2	18.3	8.5	5.4	4.0	3.2

Security Group 12 PSA Prepayment Assumption Rates															
Distribution Date	Class IW					Class WA					Class WB				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	98	96	95	94	92	98	95	94	93	91	98	95	95	95	95
March 2022	97	88	86	83	76	96	86	83	81	72	95	86	86	86	86
March 2023	95	79	74	70	57	93	75	70	65	51	93	74	74	74	65
March 2024	93	70	64	58	42	91	65	58	51	34	90	63	63	63	48
March 2025	91	62	55	48	31	88	56	47	40	21	87	54	54	54	35
March 2026	89	55	47	40	23	86	48	38	30	12	84	45	45	45	26
March 2027	87	49	40	33	17	83	40	30	22	4	81	37	37	37	19
March 2028	85	43	34	27	13	80	33	23	15	0	78	30	30	30	14
March 2029	83	38	29	22	9	77	27	17	9	0	75	25	25	25	10
March 2030	80	33	25	18	7	74	22	12	5	0	72	20	20	20	7
March 2031	78	29	21	15	5	71	17	7	0	0	68	16	16	16	5
March 2032	75	26	18	12	4	67	12	3	0	0	64	13	13	13	3
March 2033	72	22	15	10	3	64	8	0	0	0	60	10	10	10	2
March 2034	69	19	13	8	2	60	4	0	0	0	56	8	8	8	1
March 2035	66	17	11	7	1	56	1	0	0	0	52	7	7	7	0
March 2036	63	15	9	5	1	52	0	0	0	0	48	5	5	5	0
March 2037	60	12	7	4	1	48	0	0	0	0	43	4	4	4	0
March 2038	56	11	6	3	1	44	0	0	0	0	38	3	3	3	0
March 2039	53	9	5	3	0	39	0	0	0	0	33	2	2	2	0
March 2040	49	8	4	2	0	34	0	0	0	0	28	1	1	1	0
March 2041	45	6	3	2	0	29	0	0	0	0	23	1	1	1	0
March 2042	41	5	3	1	0	24	0	0	0	0	17	0	0	0	0
March 2043	36	4	2	1	0	19	0	0	0	0	11	0	0	0	0
March 2044	32	3	2	1	0	13	0	0	0	0	5	0	0	0	0
March 2045	27	3	1	0	0	7	0	0	0	0	0	0	0	0	0
March 2046	22	2	1	0	0	1	0	0	0	0	0	0	0	0	0
March 2047	17	1	1	0	0	0	0	0	0	0	0	0	0	0	0
March 2048	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2049	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	18.3	8.6	7.2	6.2	4.4	15.5	6.4	5.4	4.6	3.4	14.5	6.5	6.5	6.5	4.7

Security Group 12 PSA Prepayment Assumption Rates															
Distribution Date	Class WY					Class WZ					Class ZW				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	100	100	100	100	100	103	103	103	103	103	103	103	97	92	75
March 2022	100	100	100	100	100	105	105	105	105	105	106	106	87	68	12
March 2023	100	100	100	100	100	108	108	108	108	108	109	109	73	39	0
March 2024	100	100	100	100	100	111	111	111	111	111	113	113	64	18	0
March 2025	100	100	100	100	100	113	113	113	113	113	116	116	59	6	0
March 2026	100	100	100	100	100	116	116	116	116	116	120	120	56	1	0
March 2027	100	100	100	100	100	119	119	119	119	119	123	123	56	0	0
March 2028	100	100	100	100	100	122	122	122	122	114	127	123	56	0	0
March 2029	100	100	100	100	100	125	125	125	125	84	131	121	53	0	0
March 2030	100	100	100	100	100	128	128	128	128	61	135	116	50	0	0
March 2031	100	100	100	100	100	132	132	132	132	45	139	110	47	0	0
March 2032	100	100	100	100	100	135	135	135	110	33	143	103	43	0	0
March 2033	100	100	100	100	100	138	138	135	90	24	148	95	39	0	0
March 2034	100	100	100	100	100	142	142	114	73	17	152	87	35	0	0
March 2035	100	100	100	100	100	145	145	95	59	13	157	79	31	0	0
March 2036	100	100	100	100	100	149	130	79	47	9	162	71	27	0	0
March 2037	100	100	100	100	74	153	112	66	38	6	166	63	24	0	0
March 2038	100	100	100	100	52	157	95	54	30	5	171	56	21	0	0
March 2039	100	100	100	100	37	161	81	44	24	3	177	49	18	0	0
March 2040	100	100	100	100	26	165	68	36	19	2	182	42	15	0	0
March 2041	100	100	100	100	18	169	56	29	15	2	188	36	12	0	0
March 2042	100	100	100	100	12	173	46	23	11	1	193	30	10	0	0
March 2043	100	95	95	95	8	178	37	18	8	1	199	25	8	0	0
March 2044	100	70	70	70	5	182	29	14	6	0	205	20	6	0	0
March 2045	50	50	50	50	4	187	23	10	4	0	205	16	5	0	0
March 2046	35	35	35	35	2	191	17	7	3	0	168	12	4	0	0
March 2047	22	22	22	22	1	153	11	5	2	0	129	8	2	0	0
March 2048	12	12	12	12	1	104	7	3	1	0	88	5	1	0	0
March 2049	5	5	5	5	0	53	3	1	0	0	45	2	1	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	25.9	25.4	25.4	25.4	18.9	28.1	20.4	17.8	15.6	11.0	27.6	17.8	10.5	2.8	1.4

Security Group 13 PSA Prepayment Assumption Rates															
Distribution Date	Class IM					Class MA					Class MY				
	0%	100%	221%	350%	500%	0%	100%	221%	350%	500%	0%	100%	221%	350%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	98	91	84	77	68	98	91	83	75	65	100	100	100	100	100
March 2022	96	83	71	59	46	96	82	69	55	42	100	100	100	100	100
March 2023	94	76	60	45	31	94	74	56	40	26	100	100	100	100	100
March 2024	93	69	50	34	21	92	66	46	29	15	100	100	100	100	100
March 2025	90	63	42	26	14	90	59	37	20	7	100	100	100	100	100
March 2026	88	57	35	20	10	87	53	29	13	2	100	100	100	100	100
March 2027	86	51	29	15	6	85	47	23	8	0	100	100	100	100	82
March 2028	84	46	24	11	4	82	41	18	4	0	100	100	100	100	55
March 2029	81	41	20	9	3	80	36	13	1	0	100	100	100	100	36
March 2030	79	36	16	6	2	77	31	9	0	0	100	100	100	81	24
March 2031	76	32	13	5	1	74	26	6	0	0	100	100	100	60	16
March 2032	73	28	11	3	1	71	22	3	0	0	100	100	100	44	10
March 2033	71	24	9	3	1	68	18	1	0	0	100	100	100	32	7
March 2034	68	21	7	2	0	65	14	0	0	0	100	100	87	23	4
March 2035	65	18	5	1	0	62	11	0	0	0	100	100	68	17	3
March 2036	61	15	4	1	0	58	8	0	0	0	100	100	53	12	2
March 2037	58	12	3	1	0	54	5	0	0	0	100	100	40	8	1
March 2038	55	10	2	0	0	51	2	0	0	0	100	100	29	5	1
March 2039	51	7	2	0	0	47	0	0	0	0	100	95	21	3	0
March 2040	47	5	1	0	0	43	0	0	0	0	100	68	14	2	0
March 2041	43	3	1	0	0	38	0	0	0	0	100	43	8	1	0
March 2042	39	2	0	0	0	34	0	0	0	0	100	20	3	0	0
March 2043	35	0	0	0	0	29	0	0	0	0	100	0	0	0	0
March 2044	31	0	0	0	0	25	0	0	0	0	100	0	0	0	0
March 2045	26	0	0	0	0	20	0	0	0	0	100	0	0	0	0
March 2046	21	0	0	0	0	14	0	0	0	0	100	0	0	0	0
March 2047	16	0	0	0	0	9	0	0	0	0	100	0	0	0	0
March 2048	11	0	0	0	0	3	0	0	0	0	100	0	0	0	0
March 2049	6	0	0	0	0	0	0	0	0	0	71	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.9	8.4	5.4	3.7	2.6	17.0	7.3	4.4	2.9	2.0	29.3	20.8	16.7	12.4	8.9

Security Group 14
PSA Prepayment Assumption Rates

Distribution Date	Classes CA, CB, CD, CE, CG, CH, CI, CJ, CK, CL, CM, CN, CP, CQ, CT and CU					Class CZ					Class ZC				
	0%	595%	700%	1,200%	1,400%	0%	595%	700%	1,200%	1,400%	0%	595%	700%	1,200%	1,400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
March 2021	96	79	79	79	79	105	105	105	105	105	105	105	97	60	45
March 2022	93	43	43	43	34	109	109	109	109	109	109	109	90	7	0
March 2023	89	13	13	13	5	114	114	114	114	114	114	105	81	0	0
March 2024	85	3	3	3	1	120	120	120	120	120	120	77	55	0	0
March 2025	80	1	1	1	0	125	125	125	125	125	125	52	34	0	0
March 2026	75	0	0	0	0	131	131	131	131	131	131	33	20	0	0
March 2027	71	0	0	0	0	137	137	137	137	137	137	21	11	0	0
March 2028	65	0	0	0	0	143	143	143	143	33	143	13	7	0	0
March 2029	60	0	0	0	0	150	150	150	150	5	150	8	4	0	0
March 2030	54	0	0	0	0	157	92	92	92	1	157	5	2	0	0
March 2031	48	0	0	0	0	164	22	22	22	0	164	3	1	0	0
March 2032	42	0	0	0	0	171	3	3	3	0	171	2	1	0	0
March 2033	35	0	0	0	0	179	0	0	0	0	179	1	0	0	0
March 2034	28	0	0	0	0	188	0	0	0	0	188	1	0	0	0
March 2035	21	0	0	0	0	196	0	0	0	0	196	0	0	0	0
March 2036	13	0	0	0	0	205	0	0	0	0	205	0	0	0	0
March 2037	4	0	0	0	0	215	0	0	0	0	215	0	0	0	0
March 2038	0	0	0	0	0	0	0	0	0	0	214	0	0	0	0
March 2039	0	0	0	0	0	0	0	0	0	0	201	0	0	0	0
March 2040	0	0	0	0	0	0	0	0	0	0	188	0	0	0	0
March 2041	0	0	0	0	0	0	0	0	0	0	174	0	0	0	0
March 2042	0	0	0	0	0	0	0	0	0	0	159	0	0	0	0
March 2043	0	0	0	0	0	0	0	0	0	0	143	0	0	0	0
March 2044	0	0	0	0	0	0	0	0	0	0	126	0	0	0	0
March 2045	0	0	0	0	0	0	0	0	0	0	108	0	0	0	0
March 2046	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0
March 2047	0	0	0	0	0	0	0	0	0	0	69	0	0	0	0
March 2048	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0
March 2049	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0
March 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	10.1	1.9	1.9	1.9	1.7	17.6	10.3	10.3	10.3	7.8	24.5	5.4	4.5	1.2	0.9

Security Group 15
PSA Prepayment Assumption Rates

Distribution Date	Class UM				
	0%	100%	200%	300%	400%
Initial Percent	100	100	100	100	100
March 2021	98	96	95	93	91
March 2022	96	90	85	80	75
March 2023	94	83	73	64	56
March 2024	93	76	63	51	41
March 2025	90	70	54	41	31
March 2026	88	64	46	33	23
March 2027	86	58	39	26	17
March 2028	84	53	34	21	12
March 2029	81	48	29	16	9
March 2030	79	44	24	13	7
March 2031	76	39	21	10	5
March 2032	73	36	17	8	4
March 2033	71	32	15	6	3
March 2034	68	29	12	5	2
March 2035	65	26	10	4	1
March 2036	61	23	8	3	1
March 2037	58	20	7	2	1
March 2038	55	18	6	2	0
March 2039	51	15	5	1	0
March 2040	47	13	4	1	0
March 2041	43	11	3	1	0
March 2042	39	10	2	1	0
March 2043	35	8	2	0	0
March 2044	31	6	1	0	0
March 2045	26	5	1	0	0
March 2046	21	4	1	0	0
March 2047	16	3	0	0	0
March 2048	11	2	0	0	0
March 2049	6	1	0	0	0
March 2050	0	0	0	0	0
Weighted Average Life (years)	17.9	10.3	7.1	5.3	4.3

Yield Considerations

An investor seeking to maximize yield should make a decision whether to invest in any Regular or MX Class based on:

- the anticipated yield of that Class resulting from its purchase price,
- the investor's own projection of Mortgage Loan prepayment rates under a variety of scenarios,
- in the case of the Group 2, 4 and 9 Securities, the investor's own projection of payment rates on the Underlying Certificates under a variety of scenarios, and
- in the case of a Floating Rate or an Inverse Floating Rate Class, the investor's own projection of levels of LIBOR under a variety of scenarios.

No representation is made regarding Mortgage Loan prepayment rates, Underlying Certificate payment rates, LIBOR levels or the yield of any Class.

Prepayments: Effect on Yields

The yields to investors will be sensitive in varying degrees to the rate of prepayments on the related Mortgage Loans.

- In the case of Regular Securities or MX Securities purchased at a premium (especially the Interest Only Classes), faster than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.
- Investors in the Interest Only Classes should also consider the risk that rapid rates of principal payments could result in the failure of investors to recover fully their investments.
- In the case of Regular Securities or MX Securities purchased at a discount, slower than anticipated rates of principal payments could result in actual yields to investors that are lower than the anticipated yields.

See "Risk Factors — Rates of principal payments can reduce your yield" in this Supplement.

Rapid rates of prepayments on the Mortgage Loans are likely to coincide with periods of low prevailing interest rates.

During periods of low prevailing interest rates, the yields at which an investor may be able to reinvest amounts received as principal payments on the investor's Class of Securities may be lower than the yield on that Class.

Slow rates of prepayments on the Mortgage Loans are likely to coincide with periods of high prevailing interest rates.

During periods of high prevailing interest rates, the amount of principal payments available to an investor for reinvestment at those high rates may be relatively low.

The Mortgage Loans will not prepay at any constant rate until maturity, nor will all of the Mortgage Loans underlying any Trust Asset Group prepay at the same rate at any one time. The timing of changes in the rate of prepayments may affect the actual yield to an investor, even if the average rate of principal prepayments is consistent with the investor's expectation. In general, the earlier a prepayment of principal on the Mortgage Loans, the greater the effect on an investor's yield. As a result, the effect on an investor's yield of principal prepayments occurring at a rate higher (or lower) than the rate

anticipated by the investor during the period immediately following the Closing Date is not likely to be offset by a later equivalent reduction (or increase) in the rate of principal prepayments.

LIBOR: Effect on Yields of the Floating Rate and Inverse Floating Rate Classes

Low levels of LIBOR can reduce the yield of the Floating Rate Classes. High levels of LIBOR can reduce the yield of the Inverse Floating Rate Classes. In addition, the Floating Rate Classes will not necessarily benefit from a higher yield at high levels of LIBOR because the rate on such Classes is capped at a maximum rate described under “Terms Sheet — Interest Rates.”

Payment Delay: Effect on Yields of the Fixed Rate and Weighted Average Coupon Classes

The effective yield on any Fixed Rate or Weighted Average Coupon Class will be less than the yield otherwise produced by its Interest Rate and purchase price because, on each Distribution Date, 30 days’ interest will be payable on (or added to the principal amount of) that Class even though interest began to accrue approximately 46 or 50 days earlier, as applicable.

Yield Tables

The following tables show the pre-tax yields to maturity on a corporate bond equivalent basis of specified Classes at various constant percentages of PSA and, in the case of the Inverse Floating Rate Classes, at various constant levels of LIBOR.

The Mortgage Loans will not prepay at any constant rate until maturity, and it is unlikely that LIBOR will remain constant. Moreover, it is likely that the Mortgage Loans will experience actual prepayment rates that differ from those of the Modeling Assumptions. **Therefore, the actual pre-tax yield of any Class may differ from those shown in the applicable table below for that Class even if the Class is purchased at the assumed price shown.**

The yields were calculated by

1. determining the monthly discount rates that, when applied to the applicable assumed streams of cash flows to be paid on the applicable Class, would cause the discounted present value of the assumed streams of cash flows to equal the assumed purchase price of that Class plus accrued interest, and
2. converting the monthly rates to corporate bond equivalent rates.

These calculations do not take into account variations that may occur in the interest rates at which investors may be able to reinvest funds received by them as distributions on their Securities and consequently do not purport to reflect the return on any investment in any Class when those reinvestment rates are considered.

The information set forth in the following tables was prepared on the basis of the Modeling Assumptions and the assumptions that (1) the Interest Rate applicable to each Inverse Floating Rate Class for each Accrual Period following the first Accrual Period will be based on the indicated level of LIBOR and (2) the purchase price of each Class (expressed as a percentage of its original Class Notional Balance) plus accrued interest is as indicated in the related table. **The assumed purchase price is not necessarily that at which actual sales will occur.**

SECURITY GROUP 1

Sensitivity of Class IK to Prepayments Assumed Price 13.25%*

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>400%</u>	<u>425%</u>
12.5%	12.5%	12.5%	1.8%	0.0%

Sensitivity of Class IL to Prepayments Assumed Price 17.0%*

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>303%</u>	<u>400%</u>
4.9%	4.9%	4.9%	0.0%	(7.3)%

Sensitivity of Class KI to Prepayments Assumed Price 14.896%*

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>400%</u>	<u>426%</u>
10.7%	10.7%	10.7%	1.6%	0.0%

Sensitivity of Class KX to Prepayments Assumed Price 35.0%*

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>400%</u>	<u>484%</u>
7.4%	7.4%	7.4%	2.9%	0.0%

Sensitivity of Class KY to Prepayments Assumed Price 16.34375%*

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>175%</u>	<u>225%</u>	<u>400%</u>	<u>427%</u>
9.7%	9.7%	9.7%	1.5%	0.0%

SECURITY GROUP 2

Sensitivity of Class EI to Prepayments Assumed Price 14.0%*

PSA Prepayment Assumption Rates				
<u>250%</u>	<u>488%</u>	<u>523%</u>	<u>800%</u>	<u>1,100%</u>
10.7%	0.0%	(1.9)%	(18.3)%	(37.5)%

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

SECURITY GROUP 4**Sensitivity of Class LI to Prepayments
Assumed Price 12.0%***

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>600%</u>	<u>685%</u>	<u>900%</u>	<u>1,200%</u>
16.8%	6.3%	0.0%	(17.9)%	(47.1)%

SECURITY GROUP 5**Sensitivity of Class DI to Prepayments
Assumed Price 5.0%***

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>666%</u>
50.3%	43.0%	38.0%	23.2%	0.0%

**Sensitivity of Class DY to Prepayments
Assumed Price 11.25%***

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>863%</u>
27.0%	25.6%	24.4%	19.7%	0.0%

**Sensitivity of Class ID to Prepayments
Assumed Price 7.5%***

PSA Prepayment Assumption Rates				
<u>125%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>803%</u>
33.9%	30.3%	27.9%	20.5%	0.0%

SECURITY GROUP 6**Sensitivity of Class BI to Prepayments
Assumed Price 15.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>406%</u>
8.9%	8.9%	8.9%	0.4%	0.0%

**Sensitivity of Class GI to Prepayments
Assumed Price 13.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>386%</u>	<u>400%</u>
9.3%	9.3%	9.3%	0.0%	(1.1)%

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

Sensitivity of Class GS to Prepayments
Assumed Price 20.0%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
0.2500%	21.0%	18.5%	15.9%	8.1%
0.7050%	18.4%	15.8%	13.2%	5.3%
3.4025%	2.6%	(0.2)%	(3.0)%	(11.6)%
6.1000% and above	**	**	**	**

Sensitivity of Class IG to Prepayments
Assumed Price 14.0%*

<u>PSA Prepayment Assumption Rates</u>			
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
9.3%	9.3%	9.3%	0.0%

Sensitivity of Class SA to Prepayments
Assumed Price 20.0%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
0.2500%	21.0%	18.5%	15.9%	8.1%
0.7050%	18.4%	15.8%	13.2%	5.3%
3.4025%	2.6%	(0.2)%	(3.0)%	(11.6)%
6.1000% and above	**	**	**	**

Sensitivity of Class SB to Prepayments
Assumed Price 20.0%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
0.2500%	21.0%	18.5%	15.9%	8.1%
0.7050%	18.4%	15.8%	13.2%	5.3%
3.4025%	2.6%	(0.2)%	(3.0)%	(11.6)%
6.1000% and above	**	**	**	**

Sensitivity of Class SG to Prepayments
Assumed Price 20.0%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>
0.2500%	21.0%	18.5%	15.9%	8.1%
0.7050%	18.4%	15.8%	13.2%	5.3%
3.4025%	2.6%	(0.2)%	(3.0)%	(11.6)%
6.1000% and above	**	**	**	**

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

** Indicates that investors will suffer a loss of virtually all of their investment.

SECURITY GROUP 8

Sensitivity of Class SH to Prepayments Assumed Price 18.0%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>225%</u>	<u>285%</u>	<u>381%</u>	<u>600%</u>
0.2500%	17.6%	14.5%	9.3%	(2.7)%
0.8630%	13.7%	10.4%	5.2%	(7.1)%
3.2315%	(2.0)%	(5.4)%	(11.0)%	(24.4)%
5.6000% and above	**	**	**	**

SECURITY GROUP 9

Sensitivity of Class IA to Prepayments Assumed Price 15.0%*

<u>PSA Prepayment Assumption Rates</u>			
<u>100%</u>	<u>227%</u>	<u>350%</u>	<u>500%</u>
9.4%	0.4%	(8.5)%	(19.7)%

SECURITY GROUP 10

Sensitivity of Class FI to Prepayments Assumed Price 6.0%*

<u>PSA Prepayment Assumption Rates</u>				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,310%</u>
54.5%	47.8%	41.0%	34.1%	0.0%

Sensitivity of Class IF to Prepayments Assumed Price 6.0%*

<u>PSA Prepayment Assumption Rates</u>				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,241%</u>
54.3%	47.2%	40.0%	32.7%	0.0%

Sensitivity of Class VI to Prepayments Assumed Price 6.0%*

<u>PSA Prepayment Assumption Rates</u>				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,244%</u>
54.3%	47.2%	40.1%	32.8%	0.0%

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

** Indicates that investors will suffer a loss of virtually all of their investment.

**Sensitivity of Class WI to Prepayments
Assumed Price 6.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,129%</u>
53.7%	46.0%	38.2%	30.1%	0.0%

SECURITY GROUP 11

**Sensitivity of Class IQ to Prepayments
Assumed Price 5.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,282%</u>
56.0%	49.0%	41.9%	34.7%	0.0%

**Sensitivity of Class IV to Prepayments
Assumed Price 5.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,317%</u>
56.2%	49.3%	42.4%	35.3%	0.0%

**Sensitivity of Class QI to Prepayments
Assumed Price 5.0%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>300%</u>	<u>450%</u>	<u>600%</u>	<u>1,354%</u>
56.3%	49.6%	42.9%	36.0%	0.0%

SECURITY GROUP 12

**Sensitivity of Class IW to Prepayments
Assumed Price 5.5390625%***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>400%</u>	<u>1,187%</u>
49.4%	47.1%	44.8%	37.9%	0.0%

SECURITY GROUP 13

**Sensitivity of Class IM to Prepayments
Assumed Price 18.5%***

PSA Prepayment Assumption Rates				
<u>100%</u>	<u>221%</u>	<u>223%</u>	<u>350%</u>	<u>500%</u>
8.3%	0.2%	0.1%	(8.9)%	(20.0)%

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

SECURITY GROUP 14

Sensitivity of Class CI to Prepayments Assumed Price 7.5%*

PSA Prepayment Assumption Rates				
<u>595%</u>	<u>700%</u>	<u>1,200%</u>	<u>1,381%</u>	<u>1,400%</u>
7.7%	7.7%	7.7%	0.0%	(0.9)%

* The price does not include accrued interest. Accrued interest has been added to the price in calculating the yields set forth in the table.

CERTAIN UNITED STATES FEDERAL INCOME TAX CONSEQUENCES

The following tax discussion, when read in conjunction with the discussion of “Certain United States Federal Income Tax Consequences” in the Base Offering Circular, describes the material United States federal income tax considerations for investors in the Securities. However, these two tax discussions do not purport to deal with all United States federal tax consequences applicable to all categories of investors, some of which may be subject to special rules.

REMIC Elections

In the opinion of K&L Gates LLP, the Trust will constitute a Double REMIC Series for United States federal income tax purposes. Separate REMIC elections will be made for the Pooling REMIC and the Issuing REMIC.

Regular Securities

The Regular Securities will be treated as debt instruments issued by the Issuing REMIC for United States federal income tax purposes. Income on the Regular Securities must be reported under an accrual method of accounting.

The Notional and Accrual Classes of Regular Securities will be issued with original issue discount (“OID”), and certain other Classes of Regular Securities may be issued with OID. See *“Certain United States Federal Income Tax Consequences — Tax Treatment of Regular Securities — Original Issue Discount,” “— Variable Rate Securities” and “— Interest Weighted Securities and Non-VRDI Securities” in the Base Offering Circular.*

The prepayment assumption that should be used in determining the rates of accrual of OID, if any, on the Regular Securities is 175% PSA in the case of the Group 1 Securities, 523% PSA in the case of the Group 2 Securities, 200% PSA in the case of the Group 3, 5, 6, 7, 12 and 15 Securities, 600% PSA in the case of the Group 4 Securities, 285% PSA in the case of the Group 8 Securities, 227% PSA in the case of the Group 9 Securities, 300% PSA in the case of the Group 10 and 11 Securities, 221% PSA in the case of the Group 13 Securities and 700% PSA in the case of the Group 14 Securities (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement). In the case of the Floating Rate and Inverse Floating Rate Classes, the interest rate values to be used for these determinations are the initial Interest Rates as set forth in the Terms Sheet under “Interest Rates.” No representation is made, however, about the rate at which prepayments on the Mortgage Loans underlying any Group of Trust Assets actually will occur or the level of LIBOR at any time after the date of this Supplement. See *“Certain United States Federal Income Tax Consequences” in the Base Offering Circular.*

The Regular Securities generally will be treated as “regular interests” in a REMIC for domestic building and loan associations and “real estate assets” for real estate investment trusts (“REITs”) as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular. Similarly, interest on the Regular Securities will be considered “interest on obligations secured by mortgages on real property” for REITs as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular.

Residual Securities

The Class RR Securities will represent the beneficial ownership of the Residual Interest in the Pooling REMIC and the beneficial ownership of the Residual Interest in the Issuing REMIC. The Residual Securities, *i.e.*, the Class RR Securities, generally will be treated as “residual interests” in a REMIC for domestic building and loan associations and as “real estate assets” for REITs, as described in “Certain United States Federal Income Tax Consequences” in the Base Offering Circular, but will not be treated as debt for United States federal income tax purposes. Instead, the Holders of the Residual Securities will be required to report, and will be taxed on, their pro rata shares of the taxable income or loss of the Trust REMICs, and these requirements will continue until there are no outstanding regular interests in the respective Trust REMICs. Thus, Residual Holders will have taxable income attributable to the Residual Securities even though they will not receive principal or interest distributions with respect to the Residual Securities, which could result in a negative after-tax return for the Residual Holders. Even though the Holders of the Residual Securities are not entitled to any stated principal or interest payments on the Residual Securities, the Trust REMICs may have substantial taxable income in certain periods, and offsetting tax losses may not occur until much later periods. Accordingly, the Holders of the Residual Securities may experience substantial adverse tax timing consequences. Prospective investors are urged to consult their own tax advisors and consider the after-tax effect of ownership of the Residual Securities and the suitability of the Residual Securities to their investment objectives.

Prospective Holders of Residual Securities should be aware that, at issuance, based on the expected prices of the Regular and Residual Securities and the prepayment assumption described above, the residual interests represented by the Residual Securities will be treated as “noneconomic residual interests” as that term is defined in Treasury regulations.

OID accruals on the Underlying Certificates will be computed using the same prepayment assumption as set forth under “Certain United States Federal Income Tax Consequences — Regular Securities” in this Supplement.

MX Securities

For a discussion of certain United States federal income tax consequences applicable to the MX Classes, see “*Certain United States Federal Income Tax Consequences — Tax Treatment of MX Securities*”, “*— Exchanges of MX Classes and Regular Classes*” and “*— Taxation of Foreign Holders of REMIC Securities and MX Securities*” in the Base Offering Circular.

Investors should consult their own tax advisors in determining the United States federal, state, local, foreign and any other tax consequences to them of the purchase, ownership and disposition of the Securities.

ERISA MATTERS

Ginnie Mae guarantees distributions of principal and interest with respect to the Securities. The Ginnie Mae Guaranty is supported by the full faith and credit of the United States of America. The Regular and MX Securities will qualify as “guaranteed governmental mortgage pool certificates” within the meaning of a Department of Labor regulation, the effect of which is to provide that mortgage loans and participations therein underlying a “guaranteed governmental mortgage pool certificate” will not be considered assets of an employee benefit plan subject to the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), or subject to Section 4975 of the Code (each, a “Plan”), solely by reason of the Plan’s purchase and holding of that certificate. Fiduciaries of any such Plans should consult with their counsel before purchasing any of the Securities.

Prospective Plan investors should consult with their advisors to determine whether the purchase, holding or resale of a Security could give rise to a transaction that is prohibited or is not otherwise permissible under either ERISA or the Code.

Governmental plans and certain church plans, while not subject to the fiduciary responsibility provisions of ERISA or the prohibited transaction provisions of ERISA and the Code, may nevertheless be subject to local, state or other federal laws that are substantially similar to the foregoing provisions of ERISA and the Code. Fiduciaries of any such plans should consult with their counsel before purchasing any of the Securities.

See “ERISA Considerations” in the Base Offering Circular.

The Residual Securities are not offered to, and may not be transferred to, a Plan Investor.

LEGAL INVESTMENT CONSIDERATIONS

Institutions whose investment activities are subject to legal investment laws and regulations or to review by certain regulatory authorities may be subject to restrictions on investment in the Securities. **No representation is made about the proper characterization of any Class for legal investment or other purposes, or about the permissibility of the purchase by particular investors of any Class under applicable legal investment restrictions.**

Investors should consult their own legal advisors regarding applicable investment restrictions and the effect of any restrictions on the liquidity of the Securities prior to investing in the Securities.

See “Legal Investment Considerations” in the Base Offering Circular.

PLAN OF DISTRIBUTION

Subject to the terms and conditions of the Sponsor Agreement, the Sponsor has agreed to purchase all of the Securities if any are sold and purchased. The Sponsor proposes to offer the Regular and MX Classes to the public from time to time for sale in negotiated transactions at varying prices to be determined at the time of sale, plus accrued interest from (1) March 1, 2020 on the Fixed Rate and Weighted Average Coupon Classes and (2) March 20, 2020 on the Floating Rate and Inverse Floating Rate Classes. The Sponsor may effect these transactions by sales to or through certain securities dealers. These dealers may receive compensation in the form of discounts, concessions or commissions from the Sponsor and/or commissions from any purchasers for which they act as agents. Some of the Securities may be sold through dealers in relatively small sales. In the usual case, the commission charged on a

relatively small sale of securities will be a higher percentage of the sales price than that charged on a large sale of securities.

INCREASE IN SIZE

Before the Closing Date, Ginnie Mae, the Trustee and the Sponsor may agree to increase the size of this offering. In that event, the Securities will have the same characteristics as described in this Supplement, except that (1) the Original Class Principal Balance (or original Class Notional Balance) and (2) the Scheduled Principal Balances or Aggregate Scheduled Principal Balances of each Class receiving principal distributions or interest distributions based upon a notional balance from the same Trust Asset Group will increase by the same proportion. The Trust Agreement, the Final Data Statement, the Final Schedules and the Supplemental Statement, if any, will reflect any increase in the size of the transaction.

LEGAL MATTERS

Certain legal matters will be passed upon for Ginnie Mae by Hunton Andrews Kurth LLP, for the Trust by K&L Gates LLP, Charlotte, North Carolina, and Marcell Solomon & Associates, P.C., Bowie, Maryland, and for the Trustee by Nixon Peabody LLP.

Available Combinations(1)

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 1								
Combination 1								
IK	\$ 4,637,857	KI	\$ 9,910,714	NTL(PAC)	3.50%	FIX/IO	38382DQJ1	March 2050
KY	5,272,857							
Combination 2(6)								
KA	\$ 32,465,000	IL	\$ 13,913,571	NTL(PAC)	3.50%	FIX/IO	38382DQK8	August 2048
		KB	32,465,000	PAC	2.25	FIX	38382DQL6	August 2048
		KC	32,465,000	PAC	2.00	FIX	38382DQM4	August 2048
		KD	32,465,000	PAC	1.75	FIX	38382DQN2	August 2048
		KE	32,465,000	PAC	1.50	FIX	38382DQP7	August 2048
		KG	32,465,000	PAC	1.25	FIX	38382DQQ5	August 2048
		KH	32,465,000	PAC	1.00	FIX	38382DQR3	August 2048
Combination 3(6)								
KW	\$ 4,445,000	KJ	\$ 4,445,000	PAC	1.50%	FIX	38382DQS1	March 2050
		KL	4,445,000	PAC	1.75	FIX	38382DQT9	March 2050
		KM	4,445,000	PAC	2.00	FIX	38382DQU6	March 2050
		KN	4,445,000	PAC	2.25	FIX	38382DQV4	March 2050
		KQ	4,445,000	PAC	2.50	FIX	38382DQW2	March 2050
		KU	4,445,000	PAC	2.75	FIX	38382DQX0	March 2050
		KX	1,905,000	NTL(PAC)	3.50	FIX/IO	38382DQY8	March 2050

REMIC Securities			MX Securities					
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 2								
Combination 4(6)								
EC	\$ 110,841,857	EA	\$ 66,505,114	SC/PT	3.50%	FIX	38382DQZ5	January 2050
		EB	83,131,392	SC/PT	3.00	FIX	38382DRA9	January 2050
		ED	110,841,857	SC/PT	2.25	FIX	38382DRB7	January 2050
		EG	110,841,857	SC/PT	2.00	FIX	38382DRC5	January 2050
		EH	110,841,857	SC/PT	1.75	FIX	38382DRD3	January 2050
		EI	47,503,653	NTL(SC/PT)	3.50	FIX/IO	38382DRE1	January 2050
		EJ	110,841,857	SC/PT	1.50	FIX	38382DRF8	January 2050
		EK	110,841,857	SC/PT	1.25	FIX	38382DRG6	January 2050
		EL	110,841,857	SC/PT	1.00	FIX	38382DRH4	January 2050
Security Group 4								
Combination 5(6)								
LA	\$ 18,532,122	L	\$ 18,532,122	SC/PT	1.50%	FIX	38382DRJ0	December 2049
		LB	18,532,122	SC/PT	1.75	FIX	38382DRK7	December 2049
		LC	18,532,122	SC/PT	2.00	FIX	38382DRL5	December 2049
		LD	18,532,122	SC/PT	2.25	FIX	38382DRM3	December 2049
		LE	12,354,748	SC/PT	3.00	FIX	38382DRN1	December 2049
		LG	9,266,061	SC/PT	3.50	FIX	38382DRP6	December 2049
		LI	3,706,424	NTL(SC/PT)	5.00	FIX/IO	38382DRQ4	December 2049
Security Group 5								
Combination 6								
DI	\$ 5,400,000	ID	\$ 9,000,000	NTL(PT)	3.00%	FIX/IO	38382DRR2	March 2050
DY	3,600,000							
Combination 7								
DC	\$ 41,856,000	DP	\$ 44,528,000	PAC/AD	2.50%	FIX	38382DRS0	March 2050
DE	2,672,000							

REMIC Securities		MX Securities						
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 6								
Combination 8								
A	\$ 38,273,159	GA	\$101,052,632	PT	1.75%	FIX	38382DRT8	March 2050
G	62,779,473							
Combination 9								
FA	\$ 22,326,009	GF	\$105,539,546	PT	(5)	FLT	38382DRU5	March 2050
FB	46,592,178							
FG	36,621,359							
Combination 10								
SA	\$ 22,326,009	GS	\$ 68,918,187	NTL(PT)	(5)	INV/IO	38382DRV3	March 2050
SB	46,592,178							
Combination 11(6)								
B	\$100,660,000	GB	\$100,660,000	PAC/AD	1.50%	FIX	38382DRW1	November 2047
		GC	100,660,000	PAC/AD	1.75	FIX	38382DRX9	November 2047
		GD	100,660,000	PAC/AD	2.00	FIX	38382DRY7	November 2047
		GE	100,660,000	PAC/AD	2.25	FIX	38382DRZ4	November 2047
		GI	28,760,000	NTL(PAC/AD)	3.50	FIX/IO	38382DSA8	November 2047
Combination 12(6)								
B	\$100,660,000	GH	\$109,356,000	PAC/AD	1.50%	FIX	38382DSB6	December 2048
GU	8,696,000	GJ	109,356,000	PAC/AD	1.75	FIX	38382DSC4	December 2048
		GK	109,356,000	PAC/AD	2.00	FIX	38382DSD2	December 2048
		GL	109,356,000	PAC/AD	2.25	FIX	38382DSE0	December 2048
		GM	109,356,000	PAC/AD	2.50	FIX	38382DSF7	December 2048
		IG	31,244,571	NTL(PAC/AD)	3.50	FIX/IO	38382DSG5	December 2048

REMIC Securities			MX Securities					
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Combination 13(6)	\$100,660,000 8,696,000 5,906,000	BA	\$115,262,000	PAC/AD	2.50%	FIX	38382DSH3	August 2049
		BC	115,262,000	PAC/AD	1.50	FIX	38382DSJ9	August 2049
		BD	115,262,000	PAC/AD	1.55	FIX	38382DSK6	August 2049
		BE	115,262,000	PAC/AD	1.60	FIX	38382DSL4	August 2049
		BF	115,262,000	PAC/AD	1.65	FIX	38382DSM2	August 2049
		BG	115,262,000	PAC/AD	1.70	FIX	38382DSN0	August 2049
		BH	115,262,000	PAC/AD	1.75	FIX	38382DSP5	August 2049
		BI	32,932,000	NTL(PAC/AD)	3.50	FIX/IO	38382DSQ3	August 2049
		BJ	115,262,000	PAC/AD	1.80	FIX	38382DSR1	August 2049
		BK	115,262,000	PAC/AD	1.85	FIX	38382DSS9	August 2049
		BL	115,262,000	PAC/AD	1.90	FIX	38382DST7	August 2049
		BM	115,262,000	PAC/AD	1.95	FIX	38382DSU4	August 2049
		BN	115,262,000	PAC/AD	2.00	FIX	38382DSV2	August 2049
		BP	115,262,000	PAC/AD	2.05	FIX	38382DSW0	August 2049
		BQ	115,262,000	PAC/AD	2.10	FIX	38382DSX8	August 2049
		BS	115,262,000	PAC/AD	2.15	FIX	38382DSY6	August 2049
		BT	115,262,000	PAC/AD	2.20	FIX	38382DSZ3	August 2049
		BU	115,262,000	PAC/AD	2.25	FIX	38382DTA7	August 2049
		BV	115,262,000	PAC/AD	2.30	FIX	38382DTB5	August 2049
		BW	115,262,000	PAC/AD	2.35	FIX	38382DTC3	August 2049
		BX	115,262,000	PAC/AD	2.40	FIX	38382DTZ2	August 2049
		BY	115,262,000	PAC/AD	2.45	FIX	38382DTD1	August 2049
Security Group 10 Combination 14	\$ 16,428,571 51,428,571 7,142,857	VI	\$ 74,999,999	NTL(PT)	3.50%	FIX/IO	38382DTG4	March 2050
Security Group 11 Combination 15	\$ 41,842,527 40,000,000	IV	\$ 81,842,527	NTL(PT)	3.00%	FIX/IO	38382DTH2	March 2050

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 14 Combination 16(6) CA	\$ 65,894,000	CB	\$ 65,894,000	PAC/AD	4.25%	FIX	38382DTJ8	March 2050
		CD	65,894,000	PAC/AD	4.00	FIX	38382DTK5	March 2050
		CE	65,894,000	PAC/AD	3.75	FIX	38382DTL3	March 2050
		CG	65,894,000	PAC/AD	3.50	FIX	38382DTM1	March 2050
		CH	65,894,000	PAC/AD	3.25	FIX	38382DTN9	March 2050
		CI	51,250,888	NTL(PAC/AD)	4.50	FIX/IO	38382DTP4	March 2050
		CJ	65,894,000	PAC/AD	3.00	FIX	38382DTQ2	March 2050
		CK	65,894,000	PAC/AD	2.75	FIX	38382DTR0	March 2050
		CL	65,894,000	PAC/AD	2.50	FIX	38382DTS8	March 2050
		CM	65,894,000	PAC/AD	2.25	FIX	38382DTT6	March 2050
		CN	65,894,000	PAC/AD	2.00	FIX	38382DTU3	March 2050
		CP	65,894,000	PAC/AD	1.75	FIX	38382DTV1	March 2050
		CQ	65,894,000	PAC/AD	1.50	FIX	38382DTW9	March 2050
		CT	65,894,000	PAC/AD	1.25	FIX	38382DTX7	March 2050
		CU	65,894,000	PAC/AD	1.00	FIX	38382DTY5	March 2050

- (1) All exchanges must comply with minimum denomination restrictions.
- (2) The amount shown for each MX Class represents the maximum Original Class Principal Balance (or original Class Notional Balance) of that Class, assuming it were to be issued on the Closing Date.
- (3) As defined under “Class Types” in Appendix I to the Base Offering Circular.
- (4) See “Yield, Maturity and Prepayment Considerations — Final Distribution Date” in this Supplement.
- (5) The Interest Rate will be calculated as described under “Terms Sheet — Interest Rates” in this Supplement.
- (6) In the case of Combinations 2, 3, 4, 5, 11, 12, 13 and 16, various subcombinations are permitted. See “Description of the Securities — Modification and Exchange” in the Base Offering Circular for a discussion of subcombinations.

Schedule II

SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
Initial Balance	\$36,910,000.00	\$70,000,000.00	\$44,528,000.00
April 2020	36,816,780.32	69,757,767.04	44,399,358.64
May 2020	36,714,010.89	69,497,639.72	44,259,235.16
June 2020	36,601,732.38	69,219,714.18	44,107,676.44
July 2020	36,479,991.60	68,924,098.07	43,944,736.72
August 2020	36,348,841.48	68,610,910.43	43,770,477.56
September 2020	36,208,341.08	68,280,281.60	43,584,967.87
October 2020	36,058,555.50	67,932,353.19	43,388,283.78
November 2020	35,899,555.87	67,567,277.94	43,180,508.66
December 2020	35,731,419.30	67,185,219.59	42,961,733.02
January 2021	35,554,228.81	66,786,352.81	42,732,054.48
February 2021	35,368,073.26	66,370,862.98	42,491,577.66
March 2021	35,173,047.32	65,938,946.14	42,240,414.13
April 2021	34,969,251.35	65,490,808.73	41,978,682.32
May 2021	34,756,791.36	65,026,667.47	41,706,507.39
June 2021	34,535,778.87	64,546,749.20	41,424,021.16
July 2021	34,306,330.87	64,051,290.61	41,131,362.00
August 2021	34,068,569.69	63,540,538.09	40,828,674.69
September 2021	33,822,622.90	63,014,747.50	40,516,110.32
October 2021	33,568,623.20	62,474,183.93	40,193,826.12
November 2021	33,306,708.29	61,919,121.48	39,861,985.38
December 2021	33,037,020.77	61,349,843.01	39,520,757.24
January 2022	32,759,708.01	60,766,639.85	39,170,316.59
February 2022	32,474,921.99	60,169,811.57	38,810,843.89
March 2022	32,182,819.18	59,559,665.71	38,442,524.99
April 2022	31,883,560.39	58,936,517.45	38,065,550.99
May 2022	31,577,310.66	58,300,689.37	37,680,118.04
June 2022	31,264,239.02	57,652,511.12	37,286,427.19
July 2022	30,944,518.44	57,008,663.29	36,884,684.17
August 2022	30,627,069.82	56,369,115.26	36,475,099.20
September 2022	30,311,877.82	55,733,836.59	36,068,293.98
October 2022	29,998,927.19	55,102,797.04	35,664,249.03
November 2022	29,688,202.80	54,475,966.60	35,262,945.00
December 2022	29,379,689.60	53,853,315.42	34,864,362.65
January 2023	29,073,372.66	53,234,813.88	34,468,482.91
February 2023	28,769,237.14	52,620,432.54	34,075,286.79
March 2023	28,467,268.28	52,010,142.14	33,684,755.45
April 2023	28,167,451.44	51,403,913.64	33,296,870.19
May 2023	27,869,772.07	50,801,718.19	32,911,612.39
June 2023	27,574,215.72	50,203,527.10	32,528,963.61
July 2023	27,280,768.03	49,609,311.91	32,148,905.48
August 2023	26,989,414.73	49,019,044.32	31,771,419.78
September 2023	26,700,141.66	48,432,696.23	31,396,488.42
October 2023	26,412,934.74	47,850,239.72	31,024,093.40
November 2023	26,127,779.99	47,271,647.06	30,654,216.85

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2023	\$25,844,663.51	\$46,696,890.69	\$30,286,841.05
January 2024	25,563,571.51	46,125,943.26	29,921,948.35
February 2024	25,284,490.28	45,558,777.56	29,559,521.25
March 2024	25,007,406.21	44,995,366.59	29,199,542.35
April 2024	24,732,305.77	44,435,683.53	28,841,994.38
May 2024	24,459,175.52	43,879,701.73	28,486,860.17
June 2024	24,188,002.11	43,327,394.69	28,134,122.67
July 2024	23,918,772.28	42,778,736.14	27,783,764.94
August 2024	23,651,472.87	42,233,699.93	27,435,770.17
September 2024	23,386,090.78	41,692,260.11	27,090,121.64
October 2024	23,122,613.02	41,154,390.91	26,746,802.74
November 2024	22,861,026.67	40,620,066.70	26,405,796.99
December 2024	22,601,318.91	40,089,262.04	26,067,088.01
January 2025	22,343,477.00	39,561,951.66	25,730,659.53
February 2025	22,087,488.28	39,038,110.46	25,396,495.38
March 2025	21,833,340.17	38,517,713.47	25,064,579.50
April 2025	21,581,020.18	38,000,735.94	24,734,895.95
May 2025	21,330,515.90	37,487,153.24	24,407,428.88
June 2025	21,081,815.02	36,976,940.93	24,082,162.56
July 2025	20,834,905.28	36,470,074.71	23,759,081.34
August 2025	20,589,774.52	35,966,530.45	23,438,169.71
September 2025	20,346,410.65	35,466,284.19	23,119,412.24
October 2025	20,104,801.69	34,969,312.10	22,802,793.59
November 2025	19,864,935.69	34,475,590.54	22,488,298.56
December 2025	19,626,800.82	33,985,096.01	22,175,912.01
January 2026	19,390,385.31	33,497,805.17	21,865,618.93
February 2026	19,155,677.48	33,013,694.82	21,557,404.41
March 2026	18,922,665.70	32,532,741.93	21,251,253.61
April 2026	18,691,338.46	32,054,923.61	20,947,151.81
May 2026	18,461,684.28	31,580,217.14	20,645,084.40
June 2026	18,233,691.80	31,108,599.92	20,345,036.85
July 2026	18,007,349.69	30,640,049.53	20,046,994.71
August 2026	17,782,646.75	30,174,543.69	19,750,943.67
September 2026	17,559,571.79	29,712,060.24	19,456,869.48
October 2026	17,338,113.75	29,252,577.21	19,164,758.00
November 2026	17,118,261.62	28,796,072.73	18,874,595.17
December 2026	16,900,004.45	28,342,525.12	18,586,367.04
January 2027	16,683,331.38	27,894,804.38	18,300,059.74
February 2027	16,468,231.63	27,453,810.96	18,015,659.51
March 2027	16,254,694.47	27,019,446.89	17,733,152.67
April 2027	16,042,709.25	26,591,615.58	17,452,582.61
May 2027	15,832,265.39	26,170,221.85	17,176,232.58
June 2027	15,623,352.39	25,755,171.86	16,904,041.09
July 2027	15,415,959.81	25,346,373.10	16,635,947.50
August 2027	15,210,077.28	24,943,734.41	16,371,892.07
September 2027	15,005,694.49	24,547,165.90	16,111,815.90
October 2027	14,802,801.22	24,156,578.99	15,855,660.91
November 2027	14,601,387.29	23,771,886.33	15,603,369.89

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2027	\$14,401,442.62	\$23,393,001.87	\$15,354,886.42
January 2028	14,202,957.18	23,019,840.73	15,110,154.88
February 2028	14,005,920.99	22,652,319.30	14,869,120.47
March 2028	13,810,324.17	22,290,355.11	14,631,729.15
April 2028	13,616,156.87	21,933,866.92	14,397,927.67
May 2028	13,423,409.34	21,582,774.62	14,167,663.52
June 2028	13,232,071.88	21,236,999.26	13,940,884.96
July 2028	13,042,134.84	20,896,463.00	13,717,541.00
August 2028	12,854,054.23	20,561,089.15	13,497,581.34
September 2028	12,668,505.62	20,230,802.07	13,280,956.44
October 2028	12,485,456.23	19,905,527.26	13,067,617.45
November 2028	12,304,873.68	19,585,191.23	12,857,516.21
December 2028	12,126,726.03	19,269,721.58	12,650,605.28
January 2029	11,950,981.71	18,959,046.93	12,446,837.87
February 2029	11,777,609.56	18,653,096.93	12,246,167.88
March 2029	11,606,578.84	18,351,802.25	12,048,549.86
April 2029	11,437,859.15	18,055,094.53	11,853,939.02
May 2029	11,271,420.52	17,762,906.40	11,662,291.19
June 2029	11,107,233.33	17,475,171.46	11,473,562.87
July 2029	10,945,268.36	17,191,824.26	11,287,711.14
August 2029	10,785,496.73	16,912,800.30	11,104,693.75
September 2029	10,627,889.95	16,638,035.98	10,924,469.00
October 2029	10,472,419.88	16,367,468.64	10,746,995.83
November 2029	10,319,058.74	16,101,036.50	10,572,233.75
December 2029	10,167,779.10	15,838,678.68	10,400,142.85
January 2030	10,018,553.89	15,580,335.18	10,230,683.81
February 2030	9,871,356.35	15,325,946.84	10,063,817.85
March 2030	9,726,160.10	15,075,455.36	9,899,506.78
April 2030	9,582,939.07	14,828,803.30	9,737,712.93
May 2030	9,441,667.53	14,585,934.01	9,578,399.18
June 2030	9,302,320.07	14,346,791.69	9,421,528.94
July 2030	9,164,871.60	14,111,321.31	9,267,066.17
August 2030	9,029,297.37	13,879,468.65	9,114,975.32
September 2030	8,895,572.91	13,651,180.28	8,965,221.37
October 2030	8,763,674.10	13,426,403.51	8,817,769.79
November 2030	8,633,577.08	13,205,086.45	8,672,586.55
December 2030	8,505,258.34	12,987,177.91	8,529,638.13
January 2031	8,378,694.64	12,772,627.48	8,388,891.46
February 2031	8,253,863.05	12,561,385.45	8,250,313.97
March 2031	8,130,740.91	12,353,402.83	8,113,873.56
April 2031	8,009,305.87	12,148,631.35	7,979,538.58
May 2031	7,889,535.87	11,947,023.43	7,847,277.85
June 2031	7,771,409.10	11,748,532.17	7,717,060.62
July 2031	7,654,904.05	11,553,111.35	7,588,856.60
August 2031	7,539,999.48	11,360,715.43	7,462,635.94
September 2031	7,426,674.42	11,171,299.50	7,338,369.21
October 2031	7,314,908.17	10,984,819.33	7,216,027.41
November 2031	7,204,680.28	10,801,231.30	7,095,581.96

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2031	\$ 7,095,970.59	\$10,620,492.45	\$ 6,977,004.70
January 2032	6,988,759.16	10,442,560.41	6,860,267.85
February 2032	6,883,026.32	10,267,393.46	6,745,344.05
March 2032	6,778,752.67	10,094,950.44	6,632,206.36
April 2032	6,675,919.03	9,925,190.82	6,520,828.18
May 2032	6,574,506.47	9,758,074.64	6,411,183.33
June 2032	6,474,496.32	9,593,562.52	6,303,246.01
July 2032	6,375,870.12	9,431,615.66	6,196,990.76
August 2032	6,278,609.67	9,272,195.81	6,092,392.53
September 2032	6,182,696.99	9,115,265.28	5,989,426.61
October 2032	6,088,114.32	8,960,786.92	5,888,068.64
November 2032	5,994,844.16	8,808,724.14	5,788,294.65
December 2032	5,902,869.21	8,659,040.84	5,690,080.97
January 2033	5,812,172.37	8,511,701.49	5,593,404.30
February 2033	5,722,736.81	8,366,671.04	5,498,241.68
March 2033	5,634,545.88	8,223,914.97	5,404,570.48
April 2033	5,547,583.14	8,083,399.25	5,312,368.39
May 2033	5,461,832.38	7,945,090.34	5,221,613.44
June 2033	5,377,277.59	7,808,955.21	5,132,283.95
July 2033	5,293,902.95	7,674,961.29	5,044,358.58
August 2033	5,211,692.88	7,543,076.48	4,957,816.31
September 2033	5,130,631.95	7,413,269.15	4,872,636.38
October 2033	5,050,704.97	7,285,508.16	4,788,798.39
November 2033	4,971,896.92	7,159,762.77	4,706,282.19
December 2033	4,894,192.99	7,036,002.73	4,625,067.95
January 2034	4,817,578.53	6,914,198.22	4,545,136.11
February 2034	4,742,039.11	6,794,319.83	4,466,467.41
March 2034	4,667,560.48	6,676,338.61	4,389,042.87
April 2034	4,594,128.56	6,560,226.03	4,312,843.77
May 2034	4,521,729.45	6,445,953.95	4,237,851.69
June 2034	4,450,349.44	6,333,494.66	4,164,048.44
July 2034	4,379,975.00	6,222,820.84	4,091,416.14
August 2034	4,310,592.75	6,113,905.60	4,019,937.13
September 2034	4,242,189.50	6,006,722.41	3,949,594.04
October 2034	4,174,752.23	5,901,245.14	3,880,369.73
November 2034	4,108,268.09	5,797,448.03	3,812,247.32
December 2034	4,042,724.37	5,695,305.71	3,745,210.18
January 2035	3,978,108.56	5,594,793.19	3,679,241.92
February 2035	3,914,408.29	5,495,885.81	3,614,326.39
March 2035	3,851,611.34	5,398,559.31	3,550,447.67
April 2035	3,789,705.68	5,302,789.76	3,487,590.08
May 2035	3,728,679.40	5,208,553.59	3,425,738.16
June 2035	3,668,520.76	5,115,827.57	3,364,876.70
July 2035	3,609,218.17	5,024,588.81	3,304,990.68
August 2035	3,550,760.19	4,934,814.76	3,246,065.31
September 2035	3,493,135.52	4,846,483.20	3,188,086.04
October 2035	3,436,333.03	4,759,572.23	3,131,038.51
November 2035	3,380,341.69	4,674,060.27	3,074,908.57

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2035	\$ 3,325,150.66	\$ 4,589,926.07	\$ 3,019,682.28
January 2036	3,270,749.20	4,507,148.68	2,965,345.92
February 2036	3,217,126.74	4,425,707.46	2,911,885.96
March 2036	3,164,272.83	4,345,582.07	2,859,289.05
April 2036	3,112,177.15	4,266,752.47	2,807,542.06
May 2036	3,060,829.53	4,189,198.92	2,756,632.05
June 2036	3,010,219.92	4,112,901.97	2,706,546.27
July 2036	2,960,338.40	4,037,842.44	2,657,272.15
August 2036	2,911,175.18	3,964,001.46	2,608,797.30
September 2036	2,862,720.60	3,891,360.41	2,561,109.54
October 2036	2,814,965.12	3,819,900.96	2,514,196.83
November 2036	2,767,899.33	3,749,605.04	2,468,047.33
December 2036	2,721,513.94	3,680,454.86	2,422,649.39
January 2037	2,675,799.77	3,612,432.88	2,377,991.49
February 2037	2,630,747.77	3,545,521.82	2,334,062.31
March 2037	2,586,349.01	3,479,704.66	2,290,850.69
April 2037	2,542,594.66	3,414,964.62	2,248,345.64
May 2037	2,499,476.02	3,351,285.19	2,206,536.32
June 2037	2,456,984.51	3,288,650.08	2,165,412.05
July 2037	2,415,111.62	3,227,043.24	2,124,962.33
August 2037	2,373,849.01	3,166,448.89	2,085,176.78
September 2037	2,333,188.40	3,106,851.44	2,046,045.21
October 2037	2,293,121.64	3,048,235.56	2,007,557.55
November 2037	2,253,640.68	2,990,586.13	1,969,703.89
December 2037	2,214,737.58	2,933,888.27	1,932,474.48
January 2038	2,176,404.49	2,878,127.30	1,895,859.69
February 2038	2,138,633.68	2,823,288.78	1,859,850.04
March 2038	2,101,417.51	2,769,358.46	1,824,436.22
April 2038	2,064,748.44	2,716,322.31	1,789,609.01
May 2038	2,028,619.03	2,664,166.53	1,755,359.35
June 2038	1,993,021.94	2,612,877.49	1,721,678.33
July 2038	1,957,949.91	2,562,441.78	1,688,557.14
August 2038	1,923,395.80	2,512,846.19	1,655,987.13
September 2038	1,889,352.55	2,464,077.70	1,623,959.75
October 2038	1,855,813.18	2,416,123.49	1,592,466.60
November 2038	1,822,770.82	2,368,970.92	1,561,499.39
December 2038	1,790,218.68	2,322,607.55	1,531,049.97
January 2039	1,758,150.07	2,277,021.12	1,501,110.30
February 2039	1,726,558.37	2,232,199.55	1,471,672.45
March 2039	1,695,437.05	2,188,130.93	1,442,728.63
April 2039	1,664,779.69	2,144,803.56	1,414,271.15
May 2039	1,634,579.91	2,102,205.88	1,386,292.43
June 2039	1,604,831.46	2,060,326.51	1,358,785.02
July 2039	1,575,528.13	2,019,154.26	1,331,741.58
August 2039	1,546,663.83	1,978,678.08	1,305,154.86
September 2039	1,518,232.51	1,938,887.10	1,279,017.73
October 2039	1,490,228.24	1,899,770.61	1,253,323.18
November 2039	1,462,645.14	1,861,318.06	1,228,064.27

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2039	\$ 1,435,477.41	\$ 1,823,519.06	\$ 1,203,234.21
January 2040	1,408,719.34	1,786,363.36	1,178,826.26
February 2040	1,382,365.28	1,749,840.88	1,154,833.83
March 2040	1,356,409.65	1,713,941.68	1,131,250.39
April 2040	1,330,846.98	1,678,655.99	1,108,069.53
May 2040	1,305,671.82	1,643,974.16	1,085,284.93
June 2040	1,280,878.82	1,609,886.69	1,062,890.35
July 2040	1,256,462.71	1,576,384.24	1,040,879.68
August 2040	1,232,418.27	1,543,457.59	1,019,246.87
September 2040	1,208,740.35	1,511,097.67	997,985.96
October 2040	1,185,423.88	1,479,295.53	977,091.10
November 2040	1,162,463.84	1,448,042.38	956,556.51
December 2040	1,139,855.30	1,417,329.55	936,376.50
January 2041	1,117,593.36	1,387,148.48	916,545.49
February 2041	1,095,673.23	1,357,490.78	897,057.93
March 2041	1,074,090.14	1,328,348.15	877,908.42
April 2041	1,052,839.40	1,299,712.42	859,091.58
May 2041	1,031,916.40	1,271,575.57	840,602.15
June 2041	1,011,316.56	1,243,929.68	822,434.94
July 2041	991,035.38	1,216,766.93	804,584.83
August 2041	971,068.41	1,190,079.67	787,046.79
September 2041	951,411.27	1,163,860.31	769,815.85
October 2041	932,059.62	1,138,101.41	752,887.13
November 2041	913,009.20	1,112,795.63	736,255.81
December 2041	894,255.79	1,087,935.74	719,917.16
January 2042	875,795.22	1,063,514.63	703,866.51
February 2042	857,623.40	1,039,525.28	688,099.26
March 2042	839,736.28	1,015,960.78	672,610.87
April 2042	822,129.85	992,814.35	657,396.90
May 2042	804,800.18	970,079.28	642,452.94
June 2042	787,743.37	947,748.97	627,774.68
July 2042	770,955.58	925,816.93	613,357.85
August 2042	754,433.03	904,276.76	599,198.26
September 2042	738,171.98	883,122.17	585,291.77
October 2042	722,168.74	862,346.94	571,634.32
November 2042	706,419.67	841,944.98	558,221.90
December 2042	690,921.18	821,910.25	545,050.56
January 2043	675,669.73	802,236.84	532,116.41
February 2043	660,661.81	782,918.90	519,415.63
March 2043	645,893.99	763,950.70	506,944.45
April 2043	631,362.86	745,326.57	494,699.16
May 2043	617,065.05	727,040.94	482,676.10
June 2043	602,997.26	709,088.32	470,871.67
July 2043	589,156.22	691,463.31	459,282.32
August 2043	575,538.71	674,160.59	447,904.58
September 2043	562,141.53	657,174.91	436,734.99
October 2043	548,961.56	640,501.11	425,770.17
November 2043	535,995.68	624,134.12	415,006.80

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2043	\$ 523,240.86	\$ 608,068.93	\$ 404,441.59
January 2044	510,694.07	592,300.61	394,071.30
February 2044	498,352.33	576,824.31	383,892.76
March 2044	486,212.72	561,635.25	373,902.83
April 2044	474,272.34	546,728.73	364,098.42
May 2044	462,528.32	532,100.12	354,476.50
June 2044	450,977.86	517,744.86	345,034.08
July 2044	439,618.16	503,658.45	335,768.21
August 2044	428,446.50	489,836.47	326,675.98
September 2044	417,460.15	476,274.58	317,754.55
October 2044	406,656.46	462,968.48	309,001.11
November 2044	396,032.78	449,913.96	300,412.87
December 2044	385,586.53	437,106.85	291,987.12
January 2045	375,315.12	424,543.07	283,721.18
February 2045	365,216.05	412,218.58	275,612.39
March 2045	355,286.80	400,129.43	267,658.16
April 2045	345,524.93	388,271.71	259,855.93
May 2045	335,927.99	376,641.57	252,203.18
June 2045	326,493.61	365,235.22	244,697.42
July 2045	317,219.40	354,048.95	237,336.20
August 2045	308,103.05	343,079.08	230,117.12
September 2045	299,142.26	332,322.00	223,037.82
October 2045	290,334.74	321,774.15	216,095.95
November 2045	281,678.28	311,432.04	209,289.23
December 2045	273,170.66	301,292.22	202,615.38
January 2046	264,809.69	291,351.29	196,072.19
February 2046	256,593.25	281,605.92	189,657.46
March 2046	248,519.20	272,052.81	183,369.04
April 2046	240,585.45	262,688.73	177,204.80
May 2046	232,789.95	253,510.50	171,162.65
June 2046	225,130.67	244,514.97	165,240.54
July 2046	217,605.59	235,699.06	159,436.43
August 2046	210,212.73	227,059.74	153,748.34
September 2046	202,950.15	218,594.00	148,174.30
October 2046	195,815.93	210,298.90	142,712.38
November 2046	188,808.15	202,171.55	137,360.67
December 2046	181,924.96	194,209.08	132,117.31
January 2047	175,164.49	186,408.70	126,980.44
February 2047	168,524.94	178,767.63	121,948.27
March 2047	162,004.50	171,283.15	117,018.99
April 2047	155,601.40	163,952.59	112,190.85
May 2047	149,313.89	156,773.31	107,462.13
June 2047	143,140.26	149,742.71	102,831.12
July 2047	137,078.78	142,858.24	98,296.14
August 2047	131,127.80	136,117.39	93,855.54
September 2047	125,285.66	129,517.67	89,507.71
October 2047	119,550.72	123,056.66	85,251.03
November 2047	113,921.37	116,731.96	81,083.95

<u>Distribution Date</u>	<u>Classes KA and KW (in the aggregate)</u>	<u>Classes JE and JG (in the aggregate)</u>	<u>Classes DC and DE (in the aggregate)</u>
December 2047	\$ 108,396.03	\$ 110,541.20	\$ 77,004.90
January 2048	102,973.14	104,482.07	73,012.37
February 2048	97,651.14	98,552.28	69,104.86
March 2048	92,428.52	92,749.58	65,280.89
April 2048	87,303.77	87,071.77	61,539.01
May 2048	82,275.42	81,516.65	57,877.79
June 2048	77,342.00	76,082.09	54,295.82
July 2048	72,502.08	70,765.97	50,791.72
August 2048	67,754.23	65,566.23	47,364.12
September 2048	63,097.05	60,480.82	44,011.69
October 2048	58,529.16	55,507.72	40,733.11
November 2048	54,049.20	50,644.97	37,527.07
December 2048	49,655.83	45,890.61	34,392.31
January 2049	45,347.72	41,242.72	31,327.55
February 2049	41,123.57	36,699.43	28,331.57
March 2049	36,982.08	32,258.87	25,403.15
April 2049	32,921.99	27,919.23	22,541.09
May 2049	28,942.05	23,678.70	19,744.20
June 2049	25,041.01	19,535.52	17,011.34
July 2049	21,217.67	15,487.95	14,341.36
August 2049	17,470.82	11,534.28	11,733.14
September 2049	13,799.27	7,672.83	9,185.57
October 2049	10,201.86	3,901.93	6,697.56
November 2049	6,677.44	219.97	4,268.05
December 2049	3,224.88	0.00	1,895.98
January 2050 and thereafter	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
Initial Balance	\$120,784,000.00	\$12,459,000.00	\$1,955,187.00
April 2020	120,467,909.58	12,422,322.26	1,931,794.69
May 2020	120,116,237.36	12,382,450.83	1,900,601.22
June 2020	119,729,111.78	12,339,398.75	1,861,636.97
July 2020	119,306,688.62	12,293,181.13	1,814,955.11
August 2020	118,849,150.92	12,243,815.10	1,760,631.66
September 2020	118,356,708.90	12,191,319.84	1,698,765.60
October 2020	117,829,599.81	12,135,716.51	1,629,478.67
November 2020	117,268,087.80	12,077,028.32	1,552,915.39
December 2020	116,672,463.69	12,015,280.42	1,469,242.66
January 2021	116,043,044.77	11,950,499.98	1,378,649.60
February 2021	115,380,174.49	11,882,716.07	1,281,347.01
March 2021	114,684,222.20	11,811,959.73	1,177,567.00
April 2021	113,955,582.79	11,738,263.86	1,067,562.33
May 2021	113,194,676.34	11,661,663.27	951,605.78
June 2021	112,401,947.68	11,582,194.61	829,989.42
July 2021	111,577,866.00	11,499,896.32	703,023.82
August 2021	110,722,924.34	11,414,808.66	571,037.07
September 2021	109,837,639.12	11,326,973.60	434,373.85
October 2021	108,922,549.58	11,236,434.87	293,394.46
November 2021	107,978,217.26	11,143,237.82	148,473.55
December 2021	107,005,225.36	11,047,429.47	0.00
January 2022	106,004,178.15	10,949,058.42	0.00
February 2022	104,975,700.31	10,848,174.81	0.00
March 2022	103,920,436.25	10,744,830.29	0.00
April 2022	102,839,049.43	10,639,077.95	0.00
May 2022	101,732,221.61	10,530,972.29	0.00
June 2022	100,600,652.10	10,420,569.18	0.00
July 2022	99,445,057.02	10,307,925.77	0.00
August 2022	98,266,168.45	10,193,100.48	0.00
September 2022	97,097,011.36	10,079,043.33	0.00
October 2022	95,937,504.50	9,965,748.89	0.00
November 2022	94,787,567.26	9,853,211.76	0.00
December 2022	93,647,119.72	9,741,426.57	0.00
January 2023	92,516,082.56	9,630,387.99	0.00
February 2023	91,394,377.12	9,520,090.73	0.00
March 2023	90,281,925.36	9,410,529.52	0.00
April 2023	89,178,649.90	9,301,699.14	0.00
May 2023	88,084,473.93	9,193,594.40	0.00
June 2023	86,999,321.30	9,086,210.13	0.00
July 2023	85,923,116.47	8,979,541.23	0.00
August 2023	84,855,784.48	8,873,582.59	0.00
September 2023	83,797,251.00	8,768,329.17	0.00
October 2023	82,747,442.28	8,663,775.94	0.00
November 2023	81,706,285.18	8,559,917.91	0.00
December 2023	80,673,707.15	8,456,750.12	0.00
January 2024	79,649,636.20	8,354,267.66	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
February 2024	\$ 78,634,000.95	\$ 8,252,465.64	\$ 0.00
March 2024	77,626,730.56	8,151,339.19	0.00
April 2024	76,627,754.80	8,050,883.49	0.00
May 2024	75,637,003.98	7,951,093.74	0.00
June 2024	74,654,408.98	7,851,965.19	0.00
July 2024	73,679,901.23	7,753,493.10	0.00
August 2024	72,713,412.71	7,655,672.77	0.00
September 2024	71,754,875.97	7,558,499.54	0.00
October 2024	70,804,224.07	7,461,968.76	0.00
November 2024	69,861,390.65	7,366,075.83	0.00
December 2024	68,926,309.84	7,270,816.18	0.00
January 2025	67,998,916.33	7,176,185.25	0.00
February 2025	67,079,145.34	7,082,178.54	0.00
March 2025	66,166,932.59	6,988,791.54	0.00
April 2025	65,262,214.33	6,896,019.82	0.00
May 2025	64,364,927.32	6,803,858.93	0.00
June 2025	63,475,008.84	6,712,304.49	0.00
July 2025	62,592,396.67	6,621,352.12	0.00
August 2025	61,717,029.08	6,530,997.49	0.00
September 2025	60,848,844.86	6,441,236.27	0.00
October 2025	59,987,783.28	6,352,064.20	0.00
November 2025	59,133,784.09	6,263,477.01	0.00
December 2025	58,286,787.55	6,175,470.48	0.00
January 2026	57,446,734.38	6,088,040.41	0.00
February 2026	56,613,565.79	6,001,182.62	0.00
March 2026	55,787,223.47	5,914,892.99	0.00
April 2026	54,967,649.56	5,829,167.38	0.00
May 2026	54,154,786.68	5,744,001.72	0.00
June 2026	53,348,577.92	5,659,391.93	0.00
July 2026	52,548,966.82	5,575,333.99	0.00
August 2026	51,755,897.37	5,491,823.89	0.00
September 2026	50,969,314.03	5,408,857.65	0.00
October 2026	50,189,161.68	5,326,431.30	0.00
November 2026	49,415,385.67	5,244,540.92	0.00
December 2026	48,647,931.79	5,163,182.62	0.00
January 2027	47,886,746.25	5,082,352.50	0.00
February 2027	47,136,534.22	5,002,046.72	0.00
March 2027	46,397,497.16	4,922,928.33	0.00
April 2027	45,669,473.68	4,844,999.80	0.00
May 2027	44,952,304.67	4,768,243.81	0.00
June 2027	44,245,833.27	4,692,643.26	0.00
July 2027	43,549,904.87	4,618,181.30	0.00
August 2027	42,864,367.01	4,544,841.32	0.00
September 2027	42,189,069.41	4,472,606.95	0.00
October 2027	41,523,863.92	4,401,462.06	0.00
November 2027	40,868,604.49	4,331,390.73	0.00
December 2027	40,223,147.12	4,262,377.29	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
January 2028	\$ 39,587,349.87	\$ 4,194,406.28	\$ 0.00
February 2028	38,961,072.82	4,127,462.46	0.00
March 2028	38,344,178.01	4,061,530.83	0.00
April 2028	37,736,529.45	3,996,596.57	0.00
May 2028	37,137,993.08	3,932,645.10	0.00
June 2028	36,548,436.75	3,869,662.04	0.00
July 2028	35,967,730.17	3,807,633.20	0.00
August 2028	35,395,744.90	3,746,544.63	0.00
September 2028	34,832,354.34	3,686,382.53	0.00
October 2028	34,277,433.66	3,627,133.35	0.00
November 2028	33,730,859.84	3,568,783.69	0.00
December 2028	33,192,511.59	3,511,320.37	0.00
January 2029	32,662,269.32	3,454,730.39	0.00
February 2029	32,140,015.18	3,399,000.93	0.00
March 2029	31,625,632.97	3,344,119.36	0.00
April 2029	31,119,008.16	3,290,073.24	0.00
May 2029	30,620,027.82	3,236,850.28	0.00
June 2029	30,128,580.66	3,184,438.41	0.00
July 2029	29,644,556.96	3,132,825.69	0.00
August 2029	29,167,848.55	3,082,000.38	0.00
September 2029	28,698,348.82	3,031,950.89	0.00
October 2029	28,235,952.66	2,982,665.81	0.00
November 2029	27,780,556.47	2,934,133.89	0.00
December 2029	27,332,058.12	2,886,344.04	0.00
January 2030	26,890,356.93	2,839,285.32	0.00
February 2030	26,455,353.68	2,792,946.97	0.00
March 2030	26,026,950.53	2,747,318.37	0.00
April 2030	25,605,051.05	2,702,389.05	0.00
May 2030	25,189,560.19	2,658,148.70	0.00
June 2030	24,780,384.26	2,614,587.15	0.00
July 2030	24,377,430.88	2,571,694.37	0.00
August 2030	23,980,609.03	2,529,460.50	0.00
September 2030	23,589,828.95	2,487,875.80	0.00
October 2030	23,205,002.18	2,446,930.68	0.00
November 2030	22,826,041.52	2,406,615.68	0.00
December 2030	22,452,861.02	2,366,921.48	0.00
January 2031	22,085,375.97	2,327,838.89	0.00
February 2031	21,723,502.83	2,289,358.87	0.00
March 2031	21,367,159.30	2,251,472.49	0.00
April 2031	21,016,264.22	2,214,170.97	0.00
May 2031	20,670,737.62	2,177,445.62	0.00
June 2031	20,330,500.66	2,141,287.92	0.00
July 2031	19,995,475.63	2,105,689.43	0.00
August 2031	19,665,585.94	2,070,641.88	0.00
September 2031	19,340,756.07	2,036,137.08	0.00
October 2031	19,020,911.61	2,002,166.97	0.00
November 2031	18,705,979.22	1,968,723.60	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
December 2031	\$ 18,395,886.57	\$ 1,935,799.16	\$ 0.00
January 2032	18,090,562.42	1,903,385.93	0.00
February 2032	17,789,936.50	1,871,476.31	0.00
March 2032	17,493,939.60	1,840,062.80	0.00
April 2032	17,202,503.45	1,809,138.01	0.00
May 2032	16,915,560.80	1,778,694.68	0.00
June 2032	16,633,045.35	1,748,725.63	0.00
July 2032	16,354,891.74	1,719,223.79	0.00
August 2032	16,081,035.56	1,690,182.20	0.00
September 2032	15,811,413.34	1,661,593.99	0.00
October 2032	15,545,962.50	1,633,452.40	0.00
November 2032	15,284,621.36	1,605,750.75	0.00
December 2032	15,027,329.14	1,578,482.49	0.00
January 2033	14,774,025.91	1,551,641.13	0.00
February 2033	14,524,652.64	1,525,220.29	0.00
March 2033	14,279,151.11	1,499,213.68	0.00
April 2033	14,037,463.97	1,473,615.12	0.00
May 2033	13,799,534.66	1,448,418.48	0.00
June 2033	13,565,307.48	1,423,617.75	0.00
July 2033	13,334,727.48	1,399,207.01	0.00
August 2033	13,107,740.55	1,375,180.40	0.00
September 2033	12,884,293.32	1,351,532.16	0.00
October 2033	12,664,333.22	1,328,256.62	0.00
November 2033	12,447,808.42	1,305,348.19	0.00
December 2033	12,234,667.84	1,282,801.36	0.00
January 2034	12,024,861.14	1,260,610.68	0.00
February 2034	11,818,338.71	1,238,770.82	0.00
March 2034	11,615,051.65	1,217,276.49	0.00
April 2034	11,414,951.77	1,196,122.50	0.00
May 2034	11,217,991.56	1,175,303.72	0.00
June 2034	11,024,124.23	1,154,815.11	0.00
July 2034	10,833,303.63	1,134,651.69	0.00
August 2034	10,645,484.30	1,114,808.56	0.00
September 2034	10,460,621.43	1,095,280.90	0.00
October 2034	10,278,670.85	1,076,063.94	0.00
November 2034	10,099,589.05	1,057,152.99	0.00
December 2034	9,923,333.13	1,038,543.44	0.00
January 2035	9,749,860.82	1,020,230.72	0.00
February 2035	9,579,130.46	1,002,210.36	0.00
March 2035	9,411,101.00	984,477.92	0.00
April 2035	9,245,731.97	967,029.06	0.00
May 2035	9,082,983.49	949,859.48	0.00
June 2035	8,922,816.28	932,964.94	0.00
July 2035	8,765,191.60	916,341.29	0.00
August 2035	8,610,071.29	899,984.41	0.00
September 2035	8,457,417.74	883,890.26	0.00
October 2035	8,307,193.89	868,054.85	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
November 2035	\$ 8,159,363.20	\$ 852,474.24	\$ 0.00
December 2035	8,013,889.67	837,144.58	0.00
January 2036	7,870,737.85	822,062.03	0.00
February 2036	7,729,872.77	807,222.86	0.00
March 2036	7,591,259.97	792,623.34	0.00
April 2036	7,454,865.52	778,259.83	0.00
May 2036	7,320,655.95	764,128.74	0.00
June 2036	7,188,598.31	750,226.52	0.00
July 2036	7,058,660.10	736,549.68	0.00
August 2036	6,930,809.31	723,094.78	0.00
September 2036	6,805,014.39	709,858.44	0.00
October 2036	6,681,244.26	696,837.31	0.00
November 2036	6,559,468.27	684,028.11	0.00
December 2036	6,439,656.25	671,427.58	0.00
January 2037	6,321,778.44	659,032.55	0.00
February 2037	6,205,805.53	646,839.86	0.00
March 2037	6,091,708.64	634,846.41	0.00
April 2037	5,979,459.30	623,049.15	0.00
May 2037	5,869,029.46	611,445.07	0.00
June 2037	5,760,391.49	600,031.20	0.00
July 2037	5,653,518.16	588,804.63	0.00
August 2037	5,548,382.62	577,762.47	0.00
September 2037	5,444,958.44	566,901.88	0.00
October 2037	5,343,219.56	556,220.09	0.00
November 2037	5,243,140.31	545,714.32	0.00
December 2037	5,144,695.39	535,381.88	0.00
January 2038	5,047,859.86	525,220.08	0.00
February 2038	4,952,609.18	515,226.31	0.00
March 2038	4,858,919.13	505,397.95	0.00
April 2038	4,766,765.88	495,732.47	0.00
May 2038	4,676,125.92	486,227.34	0.00
June 2038	4,586,976.10	476,880.09	0.00
July 2038	4,499,293.60	467,688.27	0.00
August 2038	4,413,055.97	458,649.47	0.00
September 2038	4,328,241.03	449,761.33	0.00
October 2038	4,244,826.99	441,021.51	0.00
November 2038	4,162,792.33	432,427.70	0.00
December 2038	4,082,115.87	423,977.65	0.00
January 2039	4,002,776.74	415,669.12	0.00
February 2039	3,924,754.38	407,499.90	0.00
March 2039	3,848,028.52	399,467.84	0.00
April 2039	3,772,579.20	391,570.80	0.00
May 2039	3,698,386.75	383,806.67	0.00
June 2039	3,625,431.80	376,173.39	0.00
July 2039	3,553,695.25	368,668.91	0.00
August 2039	3,483,158.29	361,291.23	0.00
September 2039	3,413,802.39	354,038.35	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
October 2039	\$ 3,345,609.28	\$ 346,908.34	\$ 0.00
November 2039	3,278,560.98	339,899.27	0.00
December 2039	3,212,639.77	333,009.25	0.00
January 2040	3,147,828.18	326,236.41	0.00
February 2040	3,084,109.02	319,578.91	0.00
March 2040	3,021,465.32	313,034.96	0.00
April 2040	2,959,880.40	306,602.76	0.00
May 2040	2,899,337.81	300,280.56	0.00
June 2040	2,839,821.33	294,066.63	0.00
July 2040	2,781,315.01	287,959.27	0.00
August 2040	2,723,803.11	281,956.80	0.00
September 2040	2,667,270.15	276,057.57	0.00
October 2040	2,611,700.84	270,259.94	0.00
November 2040	2,557,080.16	264,562.33	0.00
December 2040	2,503,393.30	258,963.14	0.00
January 2041	2,450,625.64	253,460.82	0.00
February 2041	2,398,762.83	248,053.84	0.00
March 2041	2,347,790.69	242,740.69	0.00
April 2041	2,297,695.27	237,519.89	0.00
May 2041	2,248,462.82	232,389.97	0.00
June 2041	2,200,079.82	227,349.49	0.00
July 2041	2,152,532.91	222,397.02	0.00
August 2041	2,105,808.95	217,531.17	0.00
September 2041	2,059,895.02	212,750.57	0.00
October 2041	2,014,778.34	208,053.85	0.00
November 2041	1,970,446.38	203,439.68	0.00
December 2041	1,926,886.74	198,906.74	0.00
January 2042	1,884,087.25	194,453.74	0.00
February 2042	1,842,035.91	190,079.39	0.00
March 2042	1,800,720.88	185,782.45	0.00
April 2042	1,760,130.52	181,561.67	0.00
May 2042	1,720,253.35	177,415.84	0.00
June 2042	1,681,078.08	173,343.75	0.00
July 2042	1,642,593.57	169,344.22	0.00
August 2042	1,604,788.86	165,416.08	0.00
September 2042	1,567,653.14	161,558.19	0.00
October 2042	1,531,175.79	157,769.42	0.00
November 2042	1,495,346.31	154,048.65	0.00
December 2042	1,460,154.39	150,394.79	0.00
January 2043	1,425,589.87	146,806.76	0.00
February 2043	1,391,642.72	143,283.50	0.00
March 2043	1,358,303.10	139,823.96	0.00
April 2043	1,325,561.28	136,427.11	0.00
May 2043	1,293,407.69	133,091.93	0.00
June 2043	1,261,832.93	129,817.43	0.00
July 2043	1,230,827.70	126,602.62	0.00
August 2043	1,200,382.87	123,446.53	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
September 2043	\$ 1,170,489.43	\$ 120,348.21	\$ 0.00
October 2043	1,141,138.51	117,306.72	0.00
November 2043	1,112,321.39	114,321.13	0.00
December 2043	1,084,029.47	111,390.53	0.00
January 2044	1,056,254.27	108,514.03	0.00
February 2044	1,028,987.45	105,690.73	0.00
March 2044	1,002,220.81	102,919.78	0.00
April 2044	975,946.23	100,200.31	0.00
May 2044	950,155.77	97,531.48	0.00
June 2044	924,841.57	94,912.46	0.00
July 2044	899,995.91	92,342.44	0.00
August 2044	875,611.17	89,820.60	0.00
September 2044	851,679.86	87,346.15	0.00
October 2044	828,194.60	84,918.32	0.00
November 2044	805,148.13	82,536.33	0.00
December 2044	782,533.27	80,199.43	0.00
January 2045	760,343.00	77,906.87	0.00
February 2045	738,570.35	75,657.92	0.00
March 2045	717,208.51	73,451.85	0.00
April 2045	696,250.74	71,287.97	0.00
May 2045	675,690.41	69,165.55	0.00
June 2045	655,520.99	67,083.93	0.00
July 2045	635,736.07	65,042.41	0.00
August 2045	616,329.30	63,040.33	0.00
September 2045	597,294.47	61,077.03	0.00
October 2045	578,625.43	59,151.87	0.00
November 2045	560,316.14	57,264.20	0.00
December 2045	542,360.66	55,413.40	0.00
January 2046	524,753.12	53,598.86	0.00
February 2046	507,487.76	51,819.95	0.00
March 2046	490,558.91	50,076.09	0.00
April 2046	473,960.96	48,366.68	0.00
May 2046	457,688.41	46,691.15	0.00
June 2046	441,735.85	45,048.92	0.00
July 2046	426,097.93	43,439.43	0.00
August 2046	410,769.40	41,862.12	0.00
September 2046	395,745.10	40,316.46	0.00
October 2046	381,019.91	38,801.91	0.00
November 2046	366,588.84	37,317.93	0.00
December 2046	352,446.94	35,864.01	0.00
January 2047	338,589.35	34,439.63	0.00
February 2047	325,011.28	33,044.30	0.00
March 2047	311,708.04	31,677.52	0.00
April 2047	298,674.96	30,338.79	0.00
May 2047	285,907.50	29,027.64	0.00
June 2047	273,401.16	27,743.60	0.00
July 2047	261,151.50	26,486.20	0.00

<u>Distribution Date</u>	<u>Classes B, GU, GW and GY (in the aggregate)</u>	<u>Classes AB and AC (in the aggregate)</u>	<u>Class HJ</u>
August 2047	\$ 249,154.18	\$ 25,254.98	\$ 0.00
September 2047	237,404.90	24,049.50	0.00
October 2047	225,899.44	22,869.30	0.00
November 2047	214,633.65	21,713.96	0.00
December 2047	203,603.44	20,583.04	0.00
January 2048	192,804.78	19,476.12	0.00
February 2048	182,233.70	18,392.78	0.00
March 2048	171,886.30	17,332.61	0.00
April 2048	161,758.74	16,295.22	0.00
May 2048	151,847.24	15,280.20	0.00
June 2048	142,148.08	14,287.16	0.00
July 2048	132,657.60	13,315.72	0.00
August 2048	123,372.18	12,365.51	0.00
September 2048	114,288.28	11,436.14	0.00
October 2048	105,402.41	10,527.26	0.00
November 2048	96,711.12	9,638.50	0.00
December 2048	88,211.04	8,769.50	0.00
January 2049	79,898.83	7,919.93	0.00
February 2049	71,771.22	7,089.43	0.00
March 2049	63,824.97	6,277.67	0.00
April 2049	56,056.92	5,484.31	0.00
May 2049	48,463.93	4,709.04	0.00
June 2049	41,042.93	3,951.52	0.00
July 2049	33,790.90	3,211.43	0.00
August 2049	26,704.85	2,488.48	0.00
September 2049	19,781.85	1,782.35	0.00
October 2049	13,019.02	1,092.74	0.00
November 2049	6,413.52	419.35	0.00
December 2049 and thereafter	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
Initial Balance	\$30,000,000.00	\$10,114,693.00	\$65,895,000.00
April 2020	29,908,746.47	10,086,508.25	65,208,753.08
May 2020	29,803,488.16	10,055,365.89	64,428,396.39
June 2020	29,684,281.06	10,021,277.69	63,554,827.38
July 2020	29,551,197.24	9,984,257.66	62,589,233.92
August 2020	29,404,324.89	9,944,322.10	61,533,094.27
September 2020	29,243,768.21	9,901,489.54	60,388,175.67
October 2020	29,069,647.41	9,855,780.77	59,156,531.34
November 2020	28,882,098.52	9,807,218.80	57,840,496.09
December 2020	28,681,273.33	9,755,828.83	56,442,680.36
January 2021	28,467,339.17	9,701,638.28	54,965,962.81
February 2021	28,240,478.73	9,644,676.71	53,413,481.34
March 2021	28,000,889.83	9,584,975.84	51,788,622.69
April 2021	27,748,785.17	9,522,569.47	50,095,010.58
May 2021	27,484,392.01	9,457,493.50	48,336,492.40
June 2021	27,207,951.89	9,389,785.86	46,517,124.61
July 2021	26,919,720.23	9,319,486.50	44,641,156.79
August 2021	26,619,966.03	9,246,637.31	42,713,014.53
September 2021	26,308,971.40	9,171,282.11	40,737,281.11
October 2021	25,987,031.13	9,093,466.61	38,718,678.25
November 2021	25,654,452.29	9,013,238.33	36,662,045.82
December 2021	25,311,553.70	8,930,646.58	34,572,320.81
January 2022	24,958,665.44	8,845,742.39	32,454,515.56
February 2022	24,596,128.30	8,758,578.45	30,313,695.48
March 2022	24,224,293.27	8,669,209.08	28,154,956.27
April 2022	23,843,520.94	8,577,690.14	25,983,400.93
May 2022	23,454,180.91	8,484,079.00	23,804,116.57
June 2022	23,056,651.21	8,388,434.44	21,701,657.76
July 2022	22,651,317.62	8,290,816.60	19,673,153.52
August 2022	22,251,234.56	8,191,286.95	17,715,839.06
September 2022	21,856,335.75	8,092,583.30	15,909,433.23
October 2022	21,466,555.78	7,994,698.66	14,287,100.71
November 2022	21,081,830.01	7,897,626.05	12,830,095.60
December 2022	20,702,094.62	7,801,358.60	11,521,580.03
January 2023	20,327,286.58	7,705,889.44	10,346,429.99
February 2023	19,957,343.65	7,611,211.80	9,291,061.02
March 2023	19,592,204.36	7,517,318.95	8,343,271.55
April 2023	19,231,807.99	7,424,204.20	7,492,102.23
May 2023	18,876,094.60	7,331,860.93	6,727,709.49
June 2023	18,525,004.97	7,240,282.57	6,041,252.05
July 2023	18,178,480.63	7,149,462.62	5,424,788.86
August 2023	17,836,463.83	7,059,394.59	4,871,187.56
September 2023	17,498,897.55	6,970,072.09	4,374,042.11
October 2023	17,165,725.46	6,881,488.75	3,927,598.92
November 2023	16,836,891.95	6,793,638.26	3,526,690.38
December 2023	16,512,342.09	6,706,514.37	3,166,675.28
January 2024	16,192,021.64	6,620,110.87	2,843,385.15
February 2024	15,875,877.03	6,534,421.62	2,553,076.18

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2024	\$15,563,855.34	\$ 6,449,440.49	\$ 2,292,385.99
April 2024	15,255,904.36	6,365,161.44	2,058,294.75
May 2024	14,951,972.46	6,281,578.46	1,848,090.35
June 2024	14,652,008.72	6,198,685.58	1,659,337.01
July 2024	14,355,962.80	6,116,476.92	1,489,847.19
August 2024	14,063,785.02	6,034,946.59	1,337,656.29
September 2024	13,775,426.31	5,954,088.78	1,200,999.93
October 2024	13,490,838.21	5,873,897.73	1,078,293.57
November 2024	13,209,972.85	5,794,367.73	968,114.20
December 2024	12,932,782.99	5,715,493.08	869,183.86
January 2025	12,659,221.94	5,637,268.18	780,354.87
February 2025	12,389,243.62	5,559,687.43	700,596.58
March 2025	12,122,802.52	5,482,745.29	628,983.42
April 2025	11,859,853.68	5,406,436.29	564,684.19
May 2025	11,600,352.72	5,330,754.96	506,952.46
June 2025	11,344,255.81	5,255,695.91	455,117.94
July 2025	11,091,519.65	5,181,253.78	408,578.69
August 2025	10,842,101.50	5,107,423.25	366,794.16
September 2025	10,595,959.15	5,034,199.05	329,278.95
October 2025	10,353,050.91	4,961,575.95	295,597.18
November 2025	10,113,335.62	4,889,548.76	265,357.45
December 2025	9,877,867.55	4,818,112.34	238,208.26
January 2026	9,647,776.75	4,747,261.59	213,834.02
February 2026	9,422,942.13	4,676,991.44	191,951.31
March 2026	9,203,245.30	4,607,296.88	172,305.66
April 2026	8,988,570.53	4,538,172.91	154,668.55
May 2026	8,778,804.65	4,469,614.62	138,834.80
June 2026	8,573,837.01	4,401,617.09	124,620.18
July 2026	8,373,559.44	4,334,175.46	111,859.24
August 2026	8,177,866.18	4,267,284.92	100,403.44
September 2026	7,986,653.83	4,200,940.69	90,119.42
October 2026	7,799,821.28	4,135,138.02	80,887.41
November 2026	7,617,269.70	4,069,975.35	72,599.90
December 2026	7,438,902.46	4,005,790.39	65,160.33
January 2027	7,264,625.07	3,942,568.90	58,482.02
February 2027	7,094,345.16	3,880,296.87	52,487.14
March 2027	6,927,972.44	3,818,960.48	47,105.82
April 2027	6,765,418.62	3,758,546.10	42,275.31
May 2027	6,606,597.37	3,699,040.30	37,939.28
June 2027	6,451,424.31	3,640,429.83	34,047.16
July 2027	6,299,816.94	3,582,701.66	30,553.55
August 2027	6,151,694.61	3,525,842.92	27,417.68
September 2027	6,006,978.45	3,469,840.92	24,602.95
October 2027	5,865,591.38	3,414,683.17	22,076.50
November 2027	5,727,458.03	3,360,357.35	19,808.84
December 2027	5,592,504.73	3,306,851.31	17,773.48
January 2028	5,460,659.44	3,254,153.07	15,946.65
February 2028	5,331,851.74	3,202,250.85	14,307.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2028	\$ 5,206,012.78	\$ 3,151,133.00	\$ 12,835.37
April 2028	5,083,075.28	3,100,788.07	11,514.57
May 2028	4,962,973.43	3,051,204.75	10,329.14
June 2028	4,845,642.91	3,002,371.90	9,265.24
July 2028	4,731,020.85	2,954,278.53	8,310.40
August 2028	4,619,045.77	2,906,913.84	7,453.47
September 2028	4,509,657.58	2,860,267.14	6,684.40
October 2028	4,402,797.54	2,814,327.93	5,994.21
November 2028	4,298,408.22	2,769,085.83	5,374.82
December 2028	4,196,433.47	2,724,530.63	4,818.95
January 2029	4,096,818.42	2,680,652.27	4,320.12
February 2029	3,999,509.42	2,637,440.80	3,872.47
March 2029	3,904,454.02	2,594,886.45	3,470.75
April 2029	3,811,600.95	2,552,979.58	3,110.27
May 2029	3,720,900.11	2,511,710.68	2,786.78
June 2029	3,632,302.49	2,471,070.38	2,496.50
July 2029	3,545,760.21	2,431,049.45	2,236.02
August 2029	3,461,226.45	2,391,638.78	2,002.29
September 2029	3,378,655.45	2,352,829.40	1,792.57
October 2029	3,298,002.48	2,314,612.46	1,604.38
November 2029	3,219,223.80	2,276,979.26	1,435.52
December 2029	3,142,276.68	2,239,921.21	1,284.01
January 2030	3,067,119.33	2,203,429.82	1,148.07
February 2030	2,993,710.90	2,167,496.77	1,026.09
March 2030	2,922,011.48	2,132,113.81	916.65
April 2030	2,851,982.04	2,097,272.86	818.46
May 2030	2,783,584.43	2,062,965.90	730.37
June 2030	2,716,781.36	2,029,185.07	651.33
July 2030	2,651,536.40	1,995,922.61	580.42
August 2030	2,587,813.90	1,963,170.86	516.80
September 2030	2,525,579.05	1,930,922.29	459.73
October 2030	2,464,797.82	1,899,169.45	408.53
November 2030	2,405,436.92	1,867,905.03	362.59
December 2030	2,347,463.85	1,837,121.80	321.39
January 2031	2,290,846.80	1,806,812.65	284.42
February 2031	2,235,554.73	1,776,970.57	251.26
March 2031	2,181,557.25	1,747,588.64	221.51
April 2031	2,128,824.68	1,718,660.05	194.83
May 2031	2,077,328.02	1,690,178.08	170.89
June 2031	2,027,038.90	1,662,136.12	149.42
July 2031	1,977,929.61	1,634,527.65	130.16
August 2031	1,929,973.07	1,607,346.24	112.88
September 2031	1,883,142.78	1,580,585.55	97.39
October 2031	1,837,412.89	1,554,239.34	83.49
November 2031	1,792,758.09	1,528,301.46	71.02
December 2031	1,749,153.65	1,502,765.83	59.84
January 2032	1,706,575.43	1,477,626.49	49.81
February 2032	1,664,999.81	1,452,877.55	40.82

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2032	\$ 1,624,403.70	\$ 1,428,513.19	\$ 32.75
April 2032	1,584,764.56	1,404,527.70	25.52
May 2032	1,546,060.33	1,380,915.44	19.03
June 2032	1,508,269.47	1,357,670.85	13.22
July 2032	1,471,370.91	1,334,788.46	8.00
August 2032	1,435,344.09	1,312,262.86	3.32
September 2032	1,400,168.89	1,290,088.75	0.00
October 2032	1,365,825.64	1,268,260.86	0.00
November 2032	1,332,295.15	1,246,774.05	0.00
December 2032	1,299,558.63	1,225,623.22	0.00
January 2033	1,267,597.73	1,204,803.35	0.00
February 2033	1,236,394.53	1,184,309.50	0.00
March 2033	1,205,931.50	1,164,136.79	0.00
April 2033	1,176,191.51	1,144,280.42	0.00
May 2033	1,147,157.83	1,124,735.67	0.00
June 2033	1,118,814.10	1,105,497.86	0.00
July 2033	1,091,144.33	1,086,562.40	0.00
August 2033	1,064,132.91	1,067,924.76	0.00
September 2033	1,037,764.58	1,049,580.48	0.00
October 2033	1,012,024.40	1,031,525.15	0.00
November 2033	986,897.81	1,013,754.46	0.00
December 2033	962,370.57	996,264.11	0.00
January 2034	938,428.74	979,049.91	0.00
February 2034	915,058.73	962,107.71	0.00
March 2034	892,247.25	945,433.41	0.00
April 2034	869,981.30	929,022.99	0.00
May 2034	848,248.19	912,872.48	0.00
June 2034	827,035.51	896,977.98	0.00
July 2034	806,331.16	881,335.61	0.00
August 2034	786,123.27	865,941.60	0.00
September 2034	766,400.29	850,792.18	0.00
October 2034	747,150.89	835,883.69	0.00
November 2034	728,364.04	821,212.47	0.00
December 2034	710,028.92	806,774.95	0.00
January 2035	692,135.01	792,567.60	0.00
February 2035	674,671.97	778,586.94	0.00
March 2035	657,629.75	764,829.55	0.00
April 2035	640,998.50	751,292.05	0.00
May 2035	624,768.60	737,971.11	0.00
June 2035	608,930.65	724,863.45	0.00
July 2035	593,475.48	711,965.84	0.00
August 2035	578,394.12	699,275.11	0.00
September 2035	563,677.80	686,788.10	0.00
October 2035	549,317.95	674,501.74	0.00
November 2035	535,306.22	662,412.97	0.00
December 2035	521,634.42	650,518.80	0.00
January 2036	508,294.58	638,816.27	0.00
February 2036	495,278.88	627,302.46	0.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2036	\$ 482,579.70	\$ 615,974.51	\$ 0.00
April 2036	470,189.60	604,829.59	0.00
May 2036	458,101.29	593,864.90	0.00
June 2036	446,307.67	583,077.70	0.00
July 2036	434,801.79	572,465.30	0.00
August 2036	423,576.87	562,025.01	0.00
September 2036	412,626.28	551,754.22	0.00
October 2036	401,943.54	541,650.33	0.00
November 2036	391,522.31	531,710.81	0.00
December 2036	381,356.44	521,933.12	0.00
January 2037	371,439.86	512,314.80	0.00
February 2037	361,766.69	502,853.41	0.00
March 2037	352,331.15	493,546.55	0.00
April 2037	343,127.63	484,391.85	0.00
May 2037	334,150.63	475,386.97	0.00
June 2037	325,394.76	466,529.62	0.00
July 2037	316,854.78	457,817.53	0.00
August 2037	308,525.56	449,248.48	0.00
September 2037	300,402.10	440,820.25	0.00
October 2037	292,479.51	432,530.70	0.00
November 2037	284,753.00	424,377.68	0.00
December 2037	277,217.91	416,359.09	0.00
January 2038	269,869.68	408,472.87	0.00
February 2038	262,703.86	400,716.96	0.00
March 2038	255,716.09	393,089.37	0.00
April 2038	248,902.12	385,588.11	0.00
May 2038	242,257.81	378,211.22	0.00
June 2038	235,779.10	370,956.80	0.00
July 2038	229,462.03	363,822.94	0.00
August 2038	223,302.73	356,807.78	0.00
September 2038	217,297.43	349,909.48	0.00
October 2038	211,442.44	343,126.23	0.00
November 2038	205,734.15	336,456.24	0.00
December 2038	200,169.04	329,897.77	0.00
January 2039	194,743.67	323,449.07	0.00
February 2039	189,454.69	317,108.45	0.00
March 2039	184,298.83	310,874.22	0.00
April 2039	179,272.86	304,744.73	0.00
May 2039	174,373.68	298,718.35	0.00
June 2039	169,598.22	292,793.47	0.00
July 2039	164,943.50	286,968.50	0.00
August 2039	160,406.61	281,241.90	0.00
September 2039	155,984.70	275,612.13	0.00
October 2039	151,674.99	270,077.67	0.00
November 2039	147,474.77	264,637.03	0.00
December 2039	143,381.40	259,288.75	0.00
January 2040	139,392.27	254,031.38	0.00
February 2040	135,504.88	248,863.50	0.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2040	\$ 131,716.74	\$ 243,783.69	\$ 0.00
April 2040	128,025.45	238,790.60	0.00
May 2040	124,428.65	233,882.84	0.00
June 2040	120,924.06	229,059.08	0.00
July 2040	117,509.42	224,318.00	0.00
August 2040	114,182.54	219,658.30	0.00
September 2040	110,941.29	215,078.70	0.00
October 2040	107,783.57	210,577.93	0.00
November 2040	104,707.35	206,154.76	0.00
December 2040	101,710.64	201,807.95	0.00
January 2041	98,791.49	197,536.30	0.00
February 2041	95,948.00	193,338.63	0.00
March 2041	93,178.31	189,213.76	0.00
April 2041	90,480.63	185,160.53	0.00
May 2041	87,853.18	181,177.83	0.00
June 2041	85,294.24	177,264.52	0.00
July 2041	82,802.12	173,419.50	0.00
August 2041	80,375.18	169,641.70	0.00
September 2041	78,011.81	165,930.04	0.00
October 2041	75,710.45	162,283.47	0.00
November 2041	73,469.56	158,700.96	0.00
December 2041	71,287.66	155,181.47	0.00
January 2042	69,163.28	151,724.02	0.00
February 2042	67,095.00	148,327.60	0.00
March 2042	65,081.43	144,991.25	0.00
April 2042	63,121.22	141,713.99	0.00
May 2042	61,213.04	138,494.90	0.00
June 2042	59,355.60	135,333.02	0.00
July 2042	57,547.63	132,227.46	0.00
August 2042	55,787.91	129,177.30	0.00
September 2042	54,075.23	126,181.65	0.00
October 2042	52,408.42	123,239.65	0.00
November 2042	50,786.33	120,350.41	0.00
December 2042	49,207.85	117,513.10	0.00
January 2043	47,671.89	114,726.88	0.00
February 2043	46,177.37	111,990.92	0.00
March 2043	44,723.26	109,304.42	0.00
April 2043	43,308.55	106,666.56	0.00
May 2043	41,932.25	104,076.58	0.00
June 2043	40,593.38	101,533.68	0.00
July 2043	39,291.01	99,037.11	0.00
August 2043	38,024.22	96,586.11	0.00
September 2043	36,792.10	94,179.95	0.00
October 2043	35,593.79	91,817.90	0.00
November 2043	34,428.42	89,499.23	0.00
December 2043	33,295.16	87,223.24	0.00
January 2044	32,193.19	84,989.24	0.00
February 2044	31,121.73	82,796.54	0.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2044	\$ 30,080.00	\$ 80,644.47	\$ 0.00
April 2044	29,067.23	78,532.35	0.00
May 2044	28,082.69	76,459.54	0.00
June 2044	27,125.67	74,425.40	0.00
July 2044	26,195.45	72,429.28	0.00
August 2044	25,291.34	70,470.56	0.00
September 2044	24,412.70	68,548.63	0.00
October 2044	23,558.84	66,662.89	0.00
November 2044	22,729.15	64,812.73	0.00
December 2044	21,923.00	62,997.57	0.00
January 2045	21,139.78	61,216.83	0.00
February 2045	20,378.90	59,469.94	0.00
March 2045	19,639.79	57,756.34	0.00
April 2045	18,921.88	56,075.49	0.00
May 2045	18,224.61	54,426.83	0.00
June 2045	17,547.47	52,809.83	0.00
July 2045	16,889.91	51,223.97	0.00
August 2045	16,251.44	49,668.72	0.00
September 2045	15,631.55	48,143.58	0.00
October 2045	15,029.77	46,648.05	0.00
November 2045	14,445.61	45,181.62	0.00
December 2045	13,878.61	43,743.82	0.00
January 2046	13,328.33	42,334.16	0.00
February 2046	12,794.33	40,952.18	0.00
March 2046	12,276.17	39,597.40	0.00
April 2046	11,773.45	38,269.37	0.00
May 2046	11,285.74	36,967.63	0.00
June 2046	10,812.67	35,691.76	0.00
July 2046	10,353.83	34,441.30	0.00
August 2046	9,908.85	33,215.84	0.00
September 2046	9,477.36	32,014.94	0.00
October 2046	9,059.00	30,838.19	0.00
November 2046	8,653.43	29,685.19	0.00
December 2046	8,260.30	28,555.52	0.00
January 2047	7,879.28	27,448.80	0.00
February 2047	7,510.03	26,364.62	0.00
March 2047	7,152.26	25,302.61	0.00
April 2047	6,805.64	24,262.39	0.00
May 2047	6,469.88	23,243.59	0.00
June 2047	6,144.68	22,245.83	0.00
July 2047	5,829.76	21,268.76	0.00
August 2047	5,524.84	20,312.02	0.00
September 2047	5,229.64	19,375.26	0.00
October 2047	4,943.91	18,458.14	0.00
November 2047	4,667.37	17,560.32	0.00
December 2047	4,399.79	16,681.46	0.00
January 2048	4,140.92	15,821.24	0.00
February 2048	3,890.51	14,979.34	0.00

<u>Distribution Date</u>	<u>Class HM</u>	<u>Classes WB and WY (in the aggregate)</u>	<u>Classes CA and CZ (in the aggregate)</u>
March 2048	\$ 3,648.33	\$ 14,155.43	\$ 0.00
April 2048	3,414.16	13,349.20	0.00
May 2048	3,187.78	12,560.36	0.00
June 2048	2,968.96	11,788.58	0.00
July 2048	2,757.50	11,033.58	0.00
August 2048	2,553.20	10,295.06	0.00
September 2048	2,355.85	9,572.73	0.00
October 2048	2,165.26	8,866.31	0.00
November 2048	1,981.23	8,175.52	0.00
December 2048	1,803.59	7,500.08	0.00
January 2049	1,632.16	6,839.72	0.00
February 2049	1,466.75	6,194.19	0.00
March 2049	1,307.20	5,563.20	0.00
April 2049	1,153.35	4,946.51	0.00
May 2049	1,005.02	4,343.86	0.00
June 2049	862.06	3,755.01	0.00
July 2049	724.32	3,179.70	0.00
August 2049	591.65	2,617.69	0.00
September 2049	463.90	2,068.75	0.00
October 2049	340.93	1,532.64	0.00
November 2049	222.59	1,009.14	0.00
December 2049	108.76	498.01	0.00
January 2050 and thereafter	0.00	0.00	0.00

Underlying Certificates

Trust Asset Group	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(O)	Final Distribution Date	Principal Type(O)	Original Principal or Notional Balance of Class	Underlying Certificate Factor(O)	Principal or Notional Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
2	Ginnie Mae	2020-009	EC(3)	January 30, 2020	38382CCG4	2.5%	FIX	January 2050	PAC/TAC/AD	\$113,184,644	0.99539481	\$110,841,857	98.3831932183%	II
4	Ginnie Mae	2019-159	QA	December 30, 2019	38382BJZ7	2.5	FIX	December 2049	PAC/AD	20,925,722	0.97200280	15,479,846	76.1059618397	I/II
4	Ginnie Mae	2020-004	BL	January 30, 2020	38382BPF80	2.5	FIX	November 2049	PAC/AD	3,091,000	0.98651449	3,052,276	100.0000000000	II
9	Ginnie Mae	2012-074	YI(3)	January 30, 2020	38375C3Y4	4.0	FIX/IO	June 2027	NTL(PT)	9,506,430	0.28452812	2,254,038	83.3533333333	I
9	Ginnie Mae	2012-124	DI	June 29, 2012	38378H5C6	3.5	FIX/IO	October 2027	NTL(PT)	10,157,011	0.40660682	4,129,910	100.0000000000	I
9	Ginnie Mae	2013-008	AI(3)	October 30, 2013	38378G3P1	3.5	FIX/IO	January 2028	NTL(PT)	5,855,961	0.42520231	1,910,021	76.7086734355	I
9	Ginnie Mae	2013-044	IA(4)	January 30, 2013	38378Q84	5.0	FIX/IO	November 2041	NTL(SC/PT)	21,529,965	0.41685446	8,974,862	100.0000000000	I
9	Ginnie Mae	2014-012	BI(3)	March 28, 2013	38378PJ25	3.0	FIX/IO	September 2038	NTL(SEQ)	37,000,000	0.25016081	4,627,975	50.0000000000	I
9	Ginnie Mae	2014-144	EI	January 30, 2014	38379ER53	3.0	FIX/IO	September 2029	NTL(PT)	8,832,992	0.44914904	3,967,329	100.0000000000	I
9	Ginnie Mae	2015-180	II	December 30, 2015	38379THV9	4.0	FIX/IO	December 2035	NTL(PT)	3,095,418	0.78301732	2,423,765	100.0000000000	II
9	Ginnie Mae	2016-171	IC	December 30, 2016	38380TEX0	3.0	FIX/IO	December 2046	NTL(PT)	11,666,666	0.72592550	8,469,107	100.0000000000	II
9	Ginnie Mae	2017-036	IC	March 30, 2017	38376MZN6	4.5	FIX/IO	March 2047	NTL(PT)	6,551,002	0.72163072	4,727,404	100.0000000000	I

- (1) As defined under “Class Types” in Appendix I to the Base Offering Circular.
- (2) Underlying Certificate Factors are as of March 2020.
- (3) MX Class.
- (4) Class IA is backed by previously issued REMIC and MX certificates, as outlined below:
 - REMIC Class F from 2011-145.
 - MX Class S from 2011-145.



\$1,780,056,197

**Government National
Mortgage Association**

GINNIE MAE[®]

**Guaranteed REMIC
Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2020-032**

OFFERING CIRCULAR SUPPLEMENT
March 24, 2020

**Wells Fargo Securities
Tribal Capital Markets**