

\$794,896,164 Government National Mortgage Association

GINNIE MAE®

Guaranteed REMIC Pass-Through Securities and MX Securities

Ginnie Mae REMIC Trust 2020-102

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-11 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 July 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 “exempted 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						
AI	\$ 4,609,293	3.50%	NTL(SC/PT)	FIX/IO	38382HAA8	May 2049
AP	31,459,000	1.00	SC/TAC/AD	FIX	38382HAB6	July 2049
BI	2,860,732	3.50	NTL(SC/PT)	FIX/IO	38382HAC4	July 2049
IP	13,482,428	3.50	NTL(SC/TAC/AD)	FIX/IO	38382HAD2	July 2049
Z	10,076,162	2.50	SC/SUP	FIX/Z	38382HAE0	July 2049
Security Group 2						
BP	105,844,000	1.00	SC/TAC/AD	FIX	38382HAF7	February 2050
IB	17,640,666	3.00	NTL(SC/TAC/AD)	FIX/IO	38382HAG5	February 2050
ZB	14,738,558	1.50	SC/SUP	FIX/Z	38382HAH3	February 2050
Security Group 3						
BZ(1)	8,130,687	2.50	SUP	FIX/Z	38382HAJ9	July 2050
FB(1)	23,071,612	(5)	PT	FLT	38382HAK6	July 2050
P(1)	30,222,000	2.50	PAC/AD	FIX	38382HAL4	July 2050
PZ(1)	100,000	2.50	PAC/AD	FIX/Z	38382HAM2	July 2050
SB(1)	23,071,612	(5)	NTL(PT)	INV/IO	38382HAN0	July 2050
YA(1)	52,302,278	4.00	PT	FIX	38382HAP5	July 2050
Security Group 4						
EA(1)	44,438,000	2.50	SC/TAC/AD	FIX	38382HAQ3	July 2049
IE(1)	6,060,828	2.50	SC/SUP	FIX/Z	38382HAR1	July 2049
IE(1)	6,312,353	4.00	NTL(SC/PT)	FIX/IO	38382HAS9	July 2049
Security Group 5						
CA(1)	69,903,089	1.25	PT	FIX	38382HAT7	July 2050
FC(1)	34,951,544	(5)	PT	FLT	38382HAU4	July 2050
SC(1)	34,951,544	(5)	NTL(PT)	INV/IO	38382HAV2	July 2050
Security Group 6						
GA(1)	60,391,370	2.00	PT	FIX	38382HAW0	July 2050
GI(1)	25,882,015	3.50	NTL(PT)	FIX/IO	38382HAX8	July 2050
HA(1)	39,269,151	2.00	PT	FIX	38382HAY6	July 2050
HI(1)	16,829,636	3.50	NTL(PT)	FIX/IO	38382HAZ3	July 2050
Security Group 7						
N	20,980,306	1.50	SC/PT	FIX	38382HBA7	January 2050
NI	5,994,373	3.50	NTL(SC/PT)	FIX/IO	38382HBB5	January 2050
Security Group 8						
KA(1)	40,000,000	1.75	PT	FIX	38382HBC3	July 2050
KF	78,009,086	(5)	PT	FLT	38382HBD1	July 2050
KP	38,182,000	1.50	PAC/AD	FIX	38382HBE9	May 2050
KZ	386,000	1.50	PAC/AD	FIX/Z	38382HBF6	July 2050
LS(1)	14,839,274	(5)	NTL(PT)	INV/IO	38382HBG4	July 2050
MS(1)	21,160,725	(5)	NTL(PT)	INV/IO	38382HBH2	July 2050
NS(1)	19,250,000	(5)	NTL(PT)	INV/IO	38382HBH8	July 2050
SM(1)	6,847,000	(5)	NTL(PT)	INV/IO	38382HBK5	July 2050
SN	15,912,087	(5)	NTL(PT)	INV/IO	38382HGF1	July 2050
ZK	3,441,088	1.50	SUP	FIX/Z	38382HBL3	July 2050
Security Group 9						
JF(1)	20,904,134	(5)	PAC/AD	FLT	38382HBM1	July 2050
JP(1)	11,897,406	1.00	PAC/AD	FIX	38382HBN9	July 2050
JS(1)	20,904,134	(5)	NTL(PAC/AD)	INV/IO	38382HBP4	July 2050
JZ	47,814	1.00	PAC/AD	FIX/Z	38382HBQ2	July 2050
TF(1)	23,021,689	(5)	PAC/AD	FLT	38382HBR0	July 2050
TP(1)	13,102,594	1.00	PAC/AD	FIX	38382HBS8	July 2050
TS(1)	23,021,689	(5)	NTL(PAC/AD)	INV/IO	38382HBT6	July 2050
TZ	52,657	1.00	PAC/AD	FIX/Z	38382HBW3	July 2050
ZI(1)	6,621,197	4.50	SUP	FIX/Z	38382HBV1	July 2050
ZT(1)	7,291,914	4.50	SUP	FIX/Z	38382HBW9	July 2050
Residual						
RR	0	0.00	NPR	NPR	38382HBX7	July 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.

Credit Suisse

Great Pacific Securities

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

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 1, 2, 4 and 7 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: Credit Suisse Securities (USA) LLC

Co-Sponsor: Great Pacific Securities

Trustee: Wells Fargo Bank, N.A.

Tax Administrator: The Trustee

Closing Date: July 30, 2020

Distribution Date: The 20th day of each month or, if the 20th day is not a Business Day, the first Business Day thereafter, commencing in August 2020.

Trust Assets:

<u>Trust Asset Group or Subgroup⁽¹⁾</u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term to Maturity (in years)</u>
1A	Underlying Certificates	(2)	(2)
1B	Underlying Certificate	(2)	(2)
2	Underlying Certificate	(2)	(2)
3A	Ginnie Mae II	4.0%	30
3B	Ginnie Mae II	4.0%	30
4	Underlying Certificates	(2)	(2)
5	Ginnie Mae II	3.0%	30
6A	Ginnie Mae II	3.5%	30
6B	Ginnie Mae II	3.5%	30
7	Underlying Certificates	(2)	(2)
8A	Ginnie Mae II	4.0%	30
8B	Ginnie Mae II	4.0%	30
8C	Ginnie Mae II	4.0%	30
8D	Ginnie Mae II	4.0%	30
8E	Ginnie Mae II	4.0%	30
9A	Ginnie Mae II	4.5%	30
9B	Ginnie Mae II	4.5%	30

⁽¹⁾ The Group 1, 3, 6, 8 and 9 Trust Assets consist of the enumerated subgroups (each, a “Subgroup”).

⁽²⁾ Certain information regarding the Underlying Certificates is set forth in Exhibit A to this Supplement.

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. Except in the case of a certain MX Class in Groups 4, 5, 6 and 8, 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 3, 5, 6, 8 and 9 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>
Subgroup 3A Trust Assets			
\$ 52,302,278	353	5	4.453%
Subgroup 3B Trust Assets			
\$ 61,524,299	348	7	4.430%
Group 5 Trust Assets			
\$104,854,633	358	1	3.449%
Subgroup 6A Trust Assets			
\$ 60,391,370	358	1	3.841%
Subgroup 6B Trust Assets			
\$ 39,269,151	348	5	3.940%
Subgroup 8A Trust Assets			
\$ 28,799,532	356	3	4.391%
3,024,643	328	28	4.425%
<u>\$ 31,824,175</u>			
Subgroup 8B Trust Assets			
\$ 38,500,000	358	2	4.385%
Subgroup 8C Trust Assets			
\$ 13,694,000	358	2	4.385%
Subgroup 8D Trust Assets			
\$ 44,672,642	357	2	4.461%
Subgroup 8E Trust Assets			
\$ 31,327,357	357	2	4.461%
Subgroup 9A Trust Assets			
\$ 39,470,551	356	3	4.911%
Subgroup 9B Trust Assets			
\$ 43,468,854	356	3	4.911%

⁽¹⁾ As of July 1, 2020.

⁽²⁾ The Mortgage Loans underlying the Group 3, 5, 6, 8 and 9 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 3, 5, 6, 8 and 9 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 1, 2, 4 and 7 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 or Inverse Floating Rate 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 3						
FB	LIBOR + 0.35%	0.527%	0.35%	6.50%	0	0.00%
SB	6.15% – LIBOR	5.973%	0.00%	6.15%	0	6.15%
Security Group 5						
FC	LIBOR + 0.35%	0.527%	0.35%	6.50%	0	0.00%
SC	6.15% – LIBOR	5.973%	0.00%	6.15%	0	6.15%
Security Group 8						
KF	LIBOR + 0.30%	0.477%	0.30%	6.50%	0	0.00%
KS	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
LS	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
MS	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
NS	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
SK	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
SL	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
SM	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
SN	6.20% – LIBOR	6.023%	0.00%	6.20%	0	6.20%
Security Group 9						
FJ	LIBOR + 0.35%	0.527%	0.35%	6.50%	0	0.00%
JF	LIBOR + 0.35%	0.527%	0.35%	6.50%	0	0.00%
JS	6.15% – LIBOR	5.973%	0.00%	6.15%	0	6.15%
SJ	6.15% – LIBOR	5.973%	0.00%	6.15%	0	6.15%
TF	LIBOR + 0.35%	0.527%	0.35%	6.50%	0	0.00%
TS	6.15% – LIBOR	5.973%	0.00%	6.15%	0	6.15%

- (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.

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 and the Z Accrual Amount will be allocated in the following order of priority:

1. To AP, until reduced to its Scheduled Principal Balance for that Distribution Date
2. To Z, until retired
3. To AP, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 2

The Group 2 Principal Distribution Amount and the ZB Accrual Amount will be allocated in the following order of priority:

1. To BP, until reduced to its Scheduled Principal Balance for that Distribution Date
2. To ZB, until retired
3. To BP, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 3

The Group 3 Principal Distribution Amount, the BZ Accrual Amount and the PZ Accrual Amount will be allocated as follows:

- The PZ Accrual Amount to P, until retired, and then to PZ
- The BZ Accrual Amount, sequentially, to P and PZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, and then to BZ
- The Subgroup 3A Principal Distribution Amount to YA, until retired
- The Subgroup 3B Principal Distribution Amount, concurrently, as follows:
 1. 37.4999997968% to FB, until retired
 2. 62.5000002032% in the following order of priority:
 - a. Sequentially, to P and PZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 - b. To BZ, until retired
 - c. Sequentially, to P and PZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 4

The Group 4 Principal Distribution Amount and the EZ Accrual Amount will be allocated in the following order of priority:

1. To EA, until reduced to its Scheduled Principal Balance for that Distribution Date
2. To EZ, until retired
3. To EA, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 5

The Group 5 Principal Distribution Amount will be allocated, concurrently, to CA and FC, pro rata, until retired

SECURITY GROUP 6

The Group 6 Principal Distribution Amount will be allocated as follows:

- The Subgroup 6A Principal Distribution Amount to GA, until retired
- The Subgroup 6B Principal Distribution Amount to HA, until retired

SECURITY GROUP 7

The Group 7 Principal Distribution Amount will be allocated to N, until retired

SECURITY GROUP 8

The Group 8 Principal Distribution Amount, the KZ Accrual Amount and the ZK Accrual Amount will be allocated as follows:

- The KZ Accrual Amount to KP, until retired, and then to KZ
- The ZK Accrual Amount, sequentially, to KP and KZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, and then to ZK
- 49.9999984289% of the Subgroup 8A Principal Distribution Amount, 50% of the Subgroup 8B Principal Distribution Amount, 50% of the Subgroup 8C Principal Distribution Amount, 47.3684206992% of the Subgroup 8D Principal Distribution Amount and 47.3684198766% of the Subgroup 8E Principal Distribution Amount to KF, until retired
- The remainder of the Subgroup 8A Principal Distribution Amount, the remainder of the Subgroup 8B Principal Distribution Amount and the remainder of the Subgroup 8C Principal Distribution Amount in the following order of priority:
 1. Sequentially, to KP and KZ, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To ZK, until retired
 3. Sequentially, to KP and KZ, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired
- The remainder of the Subgroup 8D Principal Distribution Amount and the remainder of the Subgroup 8E Principal Distribution Amount to KA, until retired

SECURITY GROUP 9

The Group 9 Principal Distribution Amount, the JZ Accrual Amount, the TZ Accrual Amount, the ZJ Accrual Amount and the ZT Accrual Amount will be allocated as follows:

- The JZ Accrual Amount to JP, until retired, and then to JZ
- The TZ Accrual Amount to TP, until retired, and then to TZ

- The Subgroup 9A Principal Distribution Amount and the ZJ Accrual Amount in the following order of priority:
 1. To JF, JP and JZ, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - a. 63.6363625294% to JF, while outstanding
 - b. 36.3636374706%, sequentially, to JP and JZ, in that order, while outstanding
 2. To ZJ, until retired
 3. To JF, JP and JZ, in the same manner and order priority as described in step 1 above, but without regard to their Aggregate Scheduled Principal Balance, until retired
- The Subgroup 9B Principal Distribution Amount and the ZT Accrual Amount in the following order of priority:
 1. To TF, TP and TZ, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - a. 63.6363633851% to TF, while outstanding
 - b. 36.3636366149%, sequentially, to TP and TZ, in that order, while outstanding
 2. To ZT, until retired
 3. To TF, TP and TZ, in the same manner and order of priority as described in step 1 above, but without regard to their Aggregate Scheduled Principal Balance, until retired

Scheduled Principal Balances: The Scheduled Principal Balances or 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 or Rates:

Security Group	Class	Structuring Ranges or Rates
TAC Classes		
1	AP	400% PSA
2	BP*	470% PSA
4	EA*	540% PSA
PAC Classes		
3	P and PZ (in the aggregate)	155% PSA through 325% PSA
8	KP and KZ (in the aggregate)	400% PSA through 500% PSA
9	JF, JP and JZ (in the aggregate)	201% PSA through 370% PSA
9	TF, TP and TZ (in the aggregate)	201% PSA through 370% PSA

* No Effective Rate.

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, (i) the Class Principal Balance or Class Principal Balances indicated and/or (ii) the outstanding principal balance of the related Trust Asset Group, Subgroup or Subgroups indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 1		
AI	\$ 4,609,293	21.4285714286% of the Subgroup 1A Trust Assets
BI	2,860,732	14.2857142857% of the Subgroup 1B Trust Assets
IP	13,482,428	42.8571428571% of AP (SC/TAC/AD Class)
Security Group 2		
IB	\$17,640,666	16.6666666667% of BP (SC/TAC/AD Class)
Security Group 3		
IA	\$31,723,466	137.5% of FB (PT Class)
IY	39,226,708	75% of YA (PT Class)
JL	\$11,370,750	37.5% of P and PZ (in the aggregate) (PAC/AD Classes)
	3,049,007	37.5% of BZ (SUP Class)
	<u>\$14,419,757</u>	
PI	\$15,111,000	50% of P (PAC/AD Class)
SB	23,071,612	100% of FB (PT Class)
Security Group 4		
EI	\$22,219,000	50% of EA (SC/TAC/AD Class)
IE	6,312,353	12.5% of the Group 4 Trust Assets
LI	\$16,664,250	37.5% of EA (SC/TAC/AD Class)
	6,312,353	12.5% of the Group 4 Trust Assets
	<u>\$22,976,603</u>	
Security Group 5		
DI	\$64,077,830	183.3333333333% of FC (PT Class)
IC	69,903,088	66.6666666667% of CA and FC (in the aggregate) (PT Classes)
SC	34,951,544	100% of FC (PT Class)
Security Group 6		
GI	\$25,882,015	42.8571428571% of GA (PT Class)
HI	16,829,636	42.8571428571% of HA (PT Class)
IG	43,136,692	71.4285714286% of GA (PT Class)
IH	28,049,393	71.4285714286% of HA (PT Class)
Security Group 7		
NI	\$ 5,994,373	28.5714285714% of N (SC/PT Class)
Security Group 8		
KS	\$ 6,847,000	50% of the Subgroup 8C Trust Assets
	14,839,274	47.3684198766% of the Subgroup 8E Trust Assets
	<u>\$21,686,274</u>	
LS	\$14,839,274	47.3684198766% of the Subgroup 8E Trust Assets
MS	21,160,725	47.3684206992% of the Subgroup 8D Trust Assets
NS	19,250,000	50% of the Subgroup 8B Trust Assets
SK	\$21,160,725	47.3684206992% of the Subgroup 8D Trust Assets
	19,250,000	50% of the Subgroup 8B Trust Assets
	<u>\$40,410,725</u>	

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
SL	\$26,097,000	50% of the Subgroup 8B and Subgroup 8C Trust Assets (in the aggregate)
	21,160,725	47.3684206992% of the Subgroup 8D Trust Assets
	14,839,274	47.3684198766% of the Subgroup 8E Trust Assets
	<u>\$62,096,999</u>	
SM	\$ 6,847,000	50% of the Subgroup 8C Trust Assets
SN	15,912,087	49.9999984289% of the Subgroup 8A Trust Assets
Security Group 9		
JS	\$20,904,134	100% of JF (PAC/AD Class)
SJ	43,925,823	100% of JF and TF (in the aggregate) (PAC/AD Classes)
TS	23,021,689	100% of TF (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 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 TAC classes, the related support classes will not receive any principal distribution on that date. If prepayments result in principal distributions on any distribution date greater than the amount needed to produce scheduled payments on the PAC and TAC classes for that distribution date, this excess will be distributed to the related support classes.

The rate of payments on the underlying certificates will directly affect the rate of payments on the group 1, 2, 4 and 7 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 document, the underlying certificates included in trust asset group 7 are classes that provide support to other classes, and they are

entitled to receive principal distributions only if scheduled payments have been made on other specified classes of the related underlying series (or if specified classes have been retired). Accordingly, these underlying certificates may receive no principal distributions for extended periods of time or may receive principal payments that vary widely from period to period.

In addition, the principal entitlements of certain of the underlying certificates included in trust asset groups 1, 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.

This supplement contains no information as to whether the underlying certificates 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 subgroup 1B trust assets and the group 3, 5, 6, 7, 8 and 9 trust assets and up to 100% of the mortgage loans underlying the subgroup 1A trust assets and the group 2 and 4 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 Reference Rates 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 determi-

nations 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 1, 2, 4 and 7 securities and, in particular, the support, interest only, inverse floating rate, 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. Illi-

quidity 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 3, 5, 6, 8 and 9)

The Trust MBS 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 1, 2, 4 and 7)

The Group 1, 2, 4 and 7 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 3, 5, 6, 8 and 9 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 3, 5, 6, 8 and 9 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 Mortgage Rates of the Mortgage Loans underlying the Trust MBS. However, the actual remaining terms to maturity, loan ages and 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 Date” 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:

<u>Class</u>	<u>Accrual Period</u>
Fixed Rate Classes	The calendar month preceding the related Distribution Date
Floating Rate and Inverse Floating Rate Classes	From the 20th day of the month preceding the month of the related Distribution Date through the 19th 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.

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 BZ, EZ, JZ, KZ, PZ, TZ, Z, ZB, ZJ, ZK and ZT 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 the Accrual Amounts 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 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 1 through 12 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 1, 2, 3, 4, 5, 7, 8, 9 and 10, 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 GNMAExchange@wellsfargo.com or in writing at its Corporate Trust Office at 150 East 42nd Street, 40th Floor, New York, NY 10017, Attention: Trust Administration Ginnie Mae 2020-102. The Trustee may be contacted by telephone at (917) 260-1522 and by fax at (917) 260-1594.

A fee will be payable to the Trustee in connection with each exchange equal to $\frac{1}{32}$ of 1% of the outstanding principal (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 1, 2, 4 and 7 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 1, 2, 4 and 7 securities"* in this Supplement.

Accretion Directed Classes

Classes AP, BP, EA, JF, JP, JZ, KP, KZ, P, PZ, TF, TP and TZ 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 Classes IB, IP, JS and TS is a Notional Class whose Class Notional Balance is determined by reference to the Class Principal Balance of the related Accretion Directed Class shown under "Terms Sheet — Notional Classes" 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 TAC Class will receive principal payments in accordance with a schedule calculated on the basis of, among other things, a Structuring Range or Rate. 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 Class and Class AP exhibits an Effective Range or Rate of constant prepayment rates at which such Class will receive Scheduled Payments. That range or rate may differ from the Structuring Range or Rate used to create the related principal balance schedule. Classes BP and EA do not exhibit a Rate of constant prepayment rates at which such Classes will receive Scheduled Payments. Based on the Modeling Assumptions, the *initial* Effective Ranges or Rates for the PAC and TAC Classes are as follows:

Security Group	Class	Initial Effective Ranges or Rates
TAC Classes		
1	AP	400% PSA
2	BP	None
4	EA	None
PAC Classes		
3	P and PZ (in the aggregate)	155% PSA through 325% PSA
8	KP and KZ (in the aggregate)	400% PSA through 500% PSA
9	JF, JP and JZ (in the aggregate)	201% PSA through 370% PSA
9	TF, TP and TZ (in the aggregate)	201% PSA through 370% PSA

- The principal payment stability of the PAC Classes will be supported by the related Support Classes.
- The principal payment stability of the TAC Classes will be supported by the related Support Classes.

If the Support Class supporting a given PAC Class or Class AP is retired before the Class being supported is retired, the outstanding Class will no longer have an Effective Range or Rate 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 for the PAC Classes or the initial Effective Rate for Class AP. If the initial Effective Ranges for the PAC Classes or the initial Effective Rate for Class AP were calculated using the actual characteristics of the related Mortgage Loans, the initial Effective Ranges for the PAC Classes or the initial Effective Rate for Class AP could differ from those shown in the above table or an initial Effective Rate for Class AP may not exist. Therefore, even if the Mortgage Loans were to prepay at a constant rate within the initial Effective Range shown for any PAC Class in the above table or at the initial Effective Rate shown for Class AP 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 Class or Class AP not to receive Scheduled Payments, even if prepayment rates remain within the initial Effective Range (or if prepayment rates average the initial Effective Rate) for that Class. Further, the Effective Range for any PAC Class can narrow, shift over time or cease to exist, and the Effective Rate for Class AP can change 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 Class or below the Effective Rate for Class AP, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such 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 Class or above the Effective Rate for Class AP, its supporting Class may be retired earlier than that 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

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 3, 5, 6, 8 and 9 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 3, 5, 6, 8 and 9 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 3, 5, 6, 8 or 9 Trust Asset is assumed to have an original and a remaining term to maturity of 360 months and 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 Securities are always received on the 20th day of the month, whether or not a Business Day, commencing in August 2020.

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

5. The Closing Date for the Securities is July 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 20th day of the month 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

Distribution Date	Security Group 1 PSA Prepayment Assumption Rates														
	Class AI					Classes AP and IP					Class BI				
	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	88	79	69	59	97	85	73	73	73	98	90	82	73	65
July 2022	96	76	59	43	30	93	68	45	45	42	96	78	61	47	34
July 2023	94	66	43	27	15	89	53	24	24	21	94	67	45	29	17
July 2024	92	56	32	17	8	86	40	8	10	11	92	57	34	18	9
July 2025	89	48	24	11	4	82	28	0	1	6	90	49	25	11	4
July 2026	87	41	18	7	2	78	18	0	0	3	87	42	19	7	2
July 2027	85	35	13	4	1	74	9	0	0	1	85	36	14	4	1
July 2028	82	30	10	3	1	69	1	0	0	1	82	31	10	3	1
July 2029	79	26	7	2	0	65	0	0	0	0	79	26	7	2	0
July 2030	76	22	5	1	0	60	0	0	0	0	77	22	5	1	0
July 2031	74	18	4	1	0	55	0	0	0	0	74	19	4	1	0
July 2032	71	16	3	0	0	50	0	0	0	0	71	16	3	0	0
July 2033	67	13	2	0	0	45	0	0	0	0	68	13	2	0	0
July 2034	64	11	1	0	0	39	0	0	0	0	64	11	2	0	0
July 2035	61	9	1	0	0	34	0	0	0	0	61	9	1	0	0
July 2036	57	8	1	0	0	28	0	0	0	0	58	8	1	0	0
July 2037	53	6	1	0	0	22	0	0	0	0	54	6	1	0	0
July 2038	50	5	0	0	0	16	0	0	0	0	50	5	0	0	0
July 2039	46	4	0	0	0	9	0	0	0	0	46	4	0	0	0
July 2040	41	3	0	0	0	2	0	0	0	0	42	3	0	0	0
July 2041	37	3	0	0	0	0	0	0	0	0	38	3	0	0	0
July 2042	32	2	0	0	0	0	0	0	0	0	33	2	0	0	0
July 2043	28	2	0	0	0	0	0	0	0	0	29	2	0	0	0
July 2044	23	1	0	0	0	0	0	0	0	0	24	1	0	0	0
July 2045	18	1	0	0	0	0	0	0	0	0	19	1	0	0	0
July 2046	12	0	0	0	0	0	0	0	0	0	14	1	0	0	0
July 2047	7	0	0	0	0	0	0	0	0	0	8	0	0	0	0
July 2048	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	16.7	6.4	3.5	2.3	1.7	11.4	3.5	2.0	2.0	2.1	16.9	6.5	3.7	2.5	1.8

Distribution Date	PSA Prepayment Assumption Rates				
	Class Z				
	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100
July 2021	103	103	103	65	28
July 2022	105	105	105	43	0
July 2023	108	108	108	40	0
July 2024	111	111	111	41	0
July 2025	113	113	101	42	0
July 2026	116	116	75	28	0
July 2027	119	119	55	17	0
July 2028	122	122	41	11	0
July 2029	125	107	30	7	0
July 2030	128	91	22	4	0
July 2031	132	77	16	3	0
July 2032	135	65	12	2	0
July 2033	138	55	8	1	0
July 2034	142	46	6	1	0
July 2035	145	38	4	0	0
July 2036	149	32	3	0	0
July 2037	153	26	2	0	0
July 2038	157	21	2	0	0
July 2039	161	17	1	0	0
July 2040	165	14	1	0	0
July 2041	154	11	1	0	0
July 2042	135	8	0	0	0
July 2043	116	6	0	0	0
July 2044	96	5	0	0	0
July 2045	75	3	0	0	0
July 2046	53	2	0	0	0
July 2047	31	1	0	0	0
July 2048	9	0	0	0	0
July 2049	0	0	0	0	0
Weighted Average Life (years)	24.6	13.6	7.9	3.5	0.7

Security Group 2
PSA Prepayment Assumption Rates

Distribution Date	Classes BP and IB					Class ZB				
	0%	200%	470%	700%	1,000%	0%	200%	470%	700%	1,000%
Initial Percent	100	100	100	100	100	100	100	100	100	100
July 2021	97	84	66	65	44	102	102	102	0	0
July 2022	94	70	42	36	17	103	103	103	0	0
July 2023	91	57	24	21	7	105	105	105	0	0
July 2024	88	47	12	12	3	106	106	106	0	0
July 2025	84	37	4	7	1	108	108	108	0	0
July 2026	81	29	0	4	0	109	109	95	0	0
July 2027	77	23	0	2	0	111	111	66	0	0
July 2028	74	16	0	1	0	113	113	45	0	0
July 2029	70	11	0	1	0	114	114	31	0	0
July 2030	66	7	0	0	0	116	116	22	0	0
July 2031	62	3	0	0	0	118	118	15	0	0
July 2032	58	0	0	0	0	120	115	10	0	0
July 2033	54	0	0	0	0	122	96	7	0	0
July 2034	49	0	0	0	0	123	79	5	0	0
July 2035	44	0	0	0	0	125	65	3	0	0
July 2036	40	0	0	0	0	127	53	2	0	0
July 2037	35	0	0	0	0	129	43	1	0	0
July 2038	30	0	0	0	0	131	34	1	0	0
July 2039	24	0	0	0	0	133	27	1	0	0
July 2040	19	0	0	0	0	135	21	0	0	0
July 2041	13	0	0	0	0	137	16	0	0	0
July 2042	8	0	0	0	0	139	12	0	0	0
July 2043	2	0	0	0	0	141	8	0	0	0
July 2044	0	0	0	0	0	111	5	0	0	0
July 2045	0	0	0	0	0	67	3	0	0	0
July 2046	0	0	0	0	0	22	1	0	0	0
July 2047	0	0	0	0	0	4	0	0	0	0
July 2048	0	0	0	0	0	0	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0
Weighted Average										
Life (years)	13.1	4.3	2.0	2.0	1.2	25.0	16.4	8.3	0.4	0.1

Security Group 3
PSA Prepayment Assumption Rates

Distribution Date	Classes AB, AC, AD, AE, AG, AH, AJ, AT, FB, IA, JA, JB, JC, JD, JE, JG, JH, JI, JT and SB					Class BZ					Classes IY, TY, YA, YB, YC, YD, YE, YG, YH, YJ and YK				
	0%	155%	275%	325%	600%	0%	155%	275%	325%	600%	0%	155%	275%	325%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	99	94	91	90	82	103	103	87	81	46	99	95	92	91	85
July 2022	97	85	77	73	56	105	105	66	50	0	97	86	79	76	60
July 2023	96	76	63	58	35	108	108	47	24	0	96	77	64	60	37
July 2024	94	67	51	46	22	111	111	36	9	0	94	68	53	47	23
July 2025	92	60	42	36	14	113	113	30	1	0	92	61	43	37	15
July 2026	91	53	34	28	9	116	116	28	0	0	91	54	35	29	9
July 2027	89	47	28	22	5	119	116	27	0	0	89	47	29	23	6
July 2028	87	41	23	17	3	122	113	25	0	0	87	42	23	18	4
July 2029	85	36	18	14	2	125	107	22	0	0	85	37	19	14	2
July 2030	83	32	15	11	1	128	100	20	0	0	83	32	15	11	1
July 2031	80	28	12	8	1	132	93	18	0	0	80	28	12	9	1
July 2032	78	24	10	6	0	135	85	15	0	0	78	25	10	7	1
July 2033	75	21	8	5	0	138	77	13	0	0	75	22	8	5	0
July 2034	72	18	6	4	0	142	69	11	0	0	72	19	6	4	0
July 2035	69	16	5	3	0	145	61	9	0	0	69	16	5	3	0
July 2036	66	14	4	2	0	149	54	8	0	0	66	14	4	2	0
July 2037	63	12	3	2	0	153	47	6	0	0	63	12	3	2	0
July 2038	60	10	2	1	0	157	41	5	0	0	60	10	2	1	0
July 2039	56	8	2	1	0	161	35	4	0	0	56	9	2	1	0
July 2040	52	7	1	1	0	165	29	3	0	0	52	7	1	1	0
July 2041	48	6	1	1	0	169	25	3	0	0	48	6	1	1	0
July 2042	44	5	1	0	0	173	20	2	0	0	44	5	1	0	0
July 2043	40	4	1	0	0	178	16	2	0	0	40	4	1	0	0
July 2044	35	3	0	0	0	164	13	1	0	0	35	3	0	0	0
July 2045	30	2	0	0	0	140	9	1	0	0	30	2	0	0	0
July 2046	24	1	0	0	0	115	7	1	0	0	24	2	0	0	0
July 2047	19	1	0	0	0	89	4	0	0	0	19	1	0	0	0
July 2048	13	0	0	0	0	61	2	0	0	0	13	1	0	0	0
July 2049	7	0	0	0	0	31	0	0	0	0	7	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	19.0	8.2	5.5	4.8	2.8	26.9	16.2	5.4	2.2	0.9	19.0	8.4	5.6	4.9	2.9

**Security Group 3
PSA Prepayment Assumption Rates**

Distribution Date	Classes P, PA, PB, PC, PD, PE, PG, PH, PI, PJ and PN					Class PZ				
	0%	155%	275%	325%	600%	0%	155%	275%	325%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
July 2021	98	92	92	92	92	103	103	103	103	103
July 2022	95	80	80	80	71	105	105	105	105	105
July 2023	92	67	67	67	44	108	108	108	108	108
July 2024	90	55	55	55	28	111	111	111	111	111
July 2025	87	45	45	45	17	113	113	113	113	113
July 2026	84	36	36	36	11	116	116	116	116	116
July 2027	81	28	28	28	6	119	119	119	119	119
July 2028	77	22	22	22	4	122	122	122	122	122
July 2029	74	17	17	17	2	125	125	125	125	125
July 2030	70	13	13	13	1	128	128	128	128	128
July 2031	66	10	10	10	1	132	132	132	132	132
July 2032	62	8	8	8	0	135	135	135	135	135
July 2033	58	6	6	6	0	138	138	138	138	116
July 2034	53	4	4	4	0	142	142	142	142	71
July 2035	49	3	3	3	0	145	145	145	145	43
July 2036	44	2	2	2	0	149	149	149	149	26
July 2037	39	2	2	2	0	153	153	153	153	16
July 2038	33	1	1	1	0	157	157	157	157	9
July 2039	28	1	1	1	0	161	161	161	161	6
July 2040	22	0	0	0	0	165	165	165	165	3
July 2041	15	0	0	0	0	169	169	169	169	2
July 2042	9	0	0	0	0	173	141	141	141	1
July 2043	2	0	0	0	0	178	99	99	99	1
July 2044	0	0	0	0	0	68	68	68	68	0
July 2045	0	0	0	0	0	45	45	45	45	0
July 2046	0	0	0	0	0	28	28	28	28	0
July 2047	0	0	0	0	0	15	15	15	15	0
July 2048	0	0	0	0	0	6	6	6	6	0
July 2049	0	0	0	0	0	0	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.8	5.4	5.4	5.4	3.3	24.3	23.9	23.9	23.9	14.7

**Security Group 4
PSA Prepayment Assumption Rates**

Distribution Date	Classes EA, EB, EC, ED, EG, EH, EI, EJ, EK and EL					Class EZ					Class IE					Class II				
	0%	300%	680%	1,000%	1,400%	0%	300%	680%	1,000%	1,400%	0%	300%	680%	1,000%	1,400%	0%	300%	680%	1,000%	1,400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	82	70	60	38	103	103	49	0	0	98	85	67	53	34	98	83	69	58	37
July 2022	95	63	41	24	6	105	105	24	0	0	96	68	39	21	5	96	65	41	23	6
July 2023	93	48	23	9	1	108	108	23	0	0	94	55	23	8	1	93	50	23	9	1
July 2024	90	35	12	4	0	111	111	24	0	0	92	44	13	3	0	91	37	12	4	0
July 2025	87	25	5	1	0	113	113	24	0	0	90	35	8	1	0	88	28	6	1	0
July 2026	84	16	2	1	0	116	116	25	0	0	88	28	4	0	0	85	19	2	1	0
July 2027	81	9	0	0	0	119	119	21	0	0	86	23	3	0	0	83	13	1	0	0
July 2028	78	4	0	0	0	122	122	12	0	0	83	18	1	0	0	80	8	0	0	0
July 2029	75	0	0	0	0	125	119	7	0	0	81	14	1	0	0	76	4	0	0	0
July 2030	71	0	0	0	0	128	94	4	0	0	78	11	0	0	0	73	3	0	0	0
July 2031	68	0	0	0	0	132	75	2	0	0	75	9	0	0	0	70	2	0	0	0
July 2032	64	0	0	0	0	135	59	1	0	0	73	7	0	0	0	66	2	0	0	0
July 2033	60	0	0	0	0	138	46	1	0	0	70	6	0	0	0	63	2	0	0	0
July 2034	56	0	0	0	0	142	36	0	0	0	66	4	0	0	0	59	1	0	0	0
July 2035	52	0	0	0	0	145	28	0	0	0	63	3	0	0	0	55	1	0	0	0
July 2036	47	0	0	0	0	149	22	0	0	0	60	3	0	0	0	51	1	0	0	0
July 2037	43	0	0	0	0	153	17	0	0	0	56	2	0	0	0	46	1	0	0	0
July 2038	38	0	0	0	0	157	13	0	0	0	52	2	0	0	0	42	0	0	0	0
July 2039	33	0	0	0	0	161	10	0	0	0	48	1	0	0	0	37	0	0	0	0
July 2040	28	0	0	0	0	165	7	0	0	0	44	1	0	0	0	32	0	0	0	0
July 2041	22	0	0	0	0	169	5	0	0	0	40	1	0	0	0	27	0	0	0	0
July 2042	16	0	0	0	0	173	4	0	0	0	35	0	0	0	0	22	0	0	0	0
July 2043	10	0	0	0	0	178	3	0	0	0	30	0	0	0	0	16	0	0	0	0
July 2044	4	0	0	0	0	182	2	0	0	0	25	0	0	0	0	10	0	0	0	0
July 2045	0	0	0	0	0	169	1	0	0	0	20	0	0	0	0	6	0	0	0	0
July 2046	0	0	0	0	0	123	1	0	0	0	15	0	0	0	0	4	0	0	0	0
July 2047	0	0	0	0	0	76	0	0	0	0	9	0	0	0	0	3	0	0	0	0
July 2048	0	0	0	0	0	27	0	0	0	0	3	0	0	0	0	1	0	0	0	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	14.4	3.3	2.0	1.5	1.0	26.7	12.9	2.7	0.3	0.1	17.2	4.7	2.1	1.3	0.9	15.2	3.7	2.0	1.5	0.9

Security Group 5 PSA Prepayment Assumption Rates					
Classes CA, CB, CD, CE, CG, CH, CJ, CK, CL, CM, CN, CT, DA, DB, DC, DE, DG, DH, DI, DJ, DK, DL, FC, IC and SC					
Distribution Date	0%	300%	625%	1,000%	1,300%
Initial Percent	100	100	100	100	100
July 2021	98	94	89	83	78
July 2022	97	81	66	49	37
July 2023	95	65	41	20	9
July 2024	93	52	25	8	2
July 2025	91	42	15	3	0
July 2026	89	33	9	1	0
July 2027	87	27	6	0	0
July 2028	85	21	3	0	0
July 2029	83	17	2	0	0
July 2030	80	13	1	0	0
July 2031	78	11	1	0	0
July 2032	75	8	0	0	0
July 2033	72	7	0	0	0
July 2034	69	5	0	0	0
July 2035	66	4	0	0	0
July 2036	63	3	0	0	0
July 2037	60	2	0	0	0
July 2038	56	2	0	0	0
July 2039	53	1	0	0	0
July 2040	49	1	0	0	0
July 2041	45	1	0	0	0
July 2042	41	1	0	0	0
July 2043	36	0	0	0	0
July 2044	32	0	0	0	0
July 2045	27	0	0	0	0
July 2046	22	0	0	0	0
July 2047	17	0	0	0	0
July 2048	12	0	0	0	0
July 2049	6	0	0	0	0
July 2050	0	0	0	0	0
Weighted Average Life (years)	18.3	5.4	3.1	2.2	1.8

Security Group 6															
PSA Prepayment Assumption Rates															
Distribution Date	Classes GA, GB, GC, GD, GE, GH, GI, GJ, GK, GL, GM, GN, GT and IG					Classes HA, HB, HC, HD, HE, HG, HI, HL, HM, HN, HQ, HT, HU and IH					Classes HJ and HK				
	0%	300%	606%	1,000%	1,300%	0%	300%	606%	1,000%	1,300%	0%	300%	606%	1,000%	1,300%
Initial Percent . . .	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	99	94	89	83	79	99	91	84	75	68	99	93	87	80	74
July 2022	97	81	67	49	37	97	77	59	39	25	97	79	64	45	33
July 2023	95	66	42	20	9	95	62	37	15	5	95	64	40	18	7
July 2024	94	53	26	8	2	94	49	23	6	1	94	51	25	7	2
July 2025	92	42	16	3	0	92	40	14	2	0	92	41	15	3	0
July 2026	90	34	10	1	0	90	32	9	1	0	90	33	10	1	0
July 2027	88	27	6	0	0	88	25	5	0	0	88	26	6	0	0
July 2028	86	21	4	0	0	86	20	3	0	0	86	21	4	0	0
July 2029	84	17	2	0	0	84	16	2	0	0	84	17	2	0	0
July 2030	81	14	1	0	0	81	13	1	0	0	81	13	1	0	0
July 2031	79	11	1	0	0	79	10	1	0	0	79	10	1	0	0
July 2032	76	8	1	0	0	76	8	0	0	0	76	8	1	0	0
July 2033	74	7	0	0	0	74	6	0	0	0	74	6	0	0	0
July 2034	71	5	0	0	0	71	5	0	0	0	71	5	0	0	0
July 2035	68	4	0	0	0	68	4	0	0	0	68	4	0	0	0
July 2036	65	3	0	0	0	65	3	0	0	0	65	3	0	0	0
July 2037	61	2	0	0	0	61	2	0	0	0	61	2	0	0	0
July 2038	58	2	0	0	0	58	2	0	0	0	58	2	0	0	0
July 2039	54	1	0	0	0	54	1	0	0	0	54	1	0	0	0
July 2040	51	1	0	0	0	51	1	0	0	0	51	1	0	0	0
July 2041	47	1	0	0	0	47	1	0	0	0	47	1	0	0	0
July 2042	42	1	0	0	0	42	1	0	0	0	42	1	0	0	0
July 2043	38	0	0	0	0	38	0	0	0	0	38	0	0	0	0
July 2044	33	0	0	0	0	33	0	0	0	0	33	0	0	0	0
July 2045	28	0	0	0	0	28	0	0	0	0	28	0	0	0	0
July 2046	23	0	0	0	0	23	0	0	0	0	23	0	0	0	0
July 2047	18	0	0	0	0	18	0	0	0	0	18	0	0	0	0
July 2048	12	0	0	0	0	12	0	0	0	0	12	0	0	0	0
July 2049	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.6	5.5	3.2	2.2	1.8	18.6	5.2	2.9	1.9	1.5	18.6	5.4	3.1	2.1	1.7

Security Group 7 PSA Prepayment Assumption Rates					
Distribution Date	Classes N and NI				
	0%	200%	400%	600%	800%
Initial Percent	100	100	100	100	100
July 2021	100	89	44	0	0
July 2022	100	70	0	0	0
July 2023	100	52	0	0	0
July 2024	100	39	0	0	0
July 2025	100	30	0	0	0
July 2026	100	25	0	0	0
July 2027	100	22	0	0	0
July 2028	100	21	0	0	0
July 2029	100	20	0	0	0
July 2030	100	18	0	0	0
July 2031	100	17	0	0	0
July 2032	100	16	0	0	0
July 2033	100	14	0	0	0
July 2034	100	13	0	0	0
July 2035	100	12	0	0	0
July 2036	100	10	0	0	0
July 2037	100	9	0	0	0
July 2038	100	8	0	0	0
July 2039	100	7	0	0	0
July 2040	100	6	0	0	0
July 2041	100	5	0	0	0
July 2042	100	4	0	0	0
July 2043	100	3	0	0	0
July 2044	100	2	0	0	0
July 2045	100	2	0	0	0
July 2046	100	1	0	0	0
July 2047	98	1	0	0	0
July 2048	56	0	0	0	0
July 2049	13	0	0	0	0
July 2050	0	0	0	0	0
Weighted Average					
Life (years)	28.1	5.7	0.9	0.6	0.4

Security Group 8 PSA Prepayment Assumption Rates																				
Distribution Date	Class KA					Class KF					Class KP					Class KS				
	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	99	92	91	90	83	99	91	90	89	82	98	90	90	90	88	99	92	91	90	83
July 2022	97	75	73	70	51	97	75	72	69	50	97	71	71	71	53	97	75	73	70	51
July 2023	96	56	52	49	24	96	56	52	48	23	95	50	50	50	24	96	56	52	49	24
July 2024	94	42	37	33	11	94	42	37	33	10	93	35	35	35	10	94	42	37	33	11
July 2025	92	31	27	23	5	92	31	26	23	5	91	23	23	23	4	92	31	27	23	5
July 2026	91	23	19	16	2	91	23	19	15	2	89	16	16	16	1	91	23	19	16	2
July 2027	89	17	14	11	1	89	17	13	11	1	87	10	10	10	0	89	17	14	11	1
July 2028	87	13	10	7	0	87	13	10	7	0	84	7	7	7	0	87	13	10	7	0
July 2029	85	9	7	5	0	85	9	7	5	0	82	4	4	4	0	85	9	7	5	0
July 2030	83	7	5	3	0	83	7	5	3	0	79	2	2	2	0	83	7	5	3	0
July 2031	80	5	3	2	0	80	5	3	2	0	76	1	1	1	0	80	5	3	2	0
July 2032	78	4	2	2	0	78	4	2	2	0	74	0	0	0	0	78	4	2	2	0
July 2033	75	3	2	1	0	75	3	2	1	0	70	0	0	0	0	75	3	2	1	0
July 2034	72	2	1	1	0	72	2	1	1	0	67	0	0	0	0	72	2	1	1	0
July 2035	69	1	1	0	0	69	1	1	0	0	64	0	0	0	0	69	1	1	0	0
July 2036	66	1	1	0	0	66	1	1	0	0	60	0	0	0	0	66	1	1	0	0
July 2037	63	1	0	0	0	63	1	0	0	0	57	0	0	0	0	63	1	0	0	0
July 2038	60	1	0	0	0	60	1	0	0	0	53	0	0	0	0	60	1	0	0	0
July 2039	56	0	0	0	0	56	0	0	0	0	48	0	0	0	0	56	0	0	0	0
July 2040	52	0	0	0	0	52	0	0	0	0	44	0	0	0	0	52	0	0	0	0
July 2041	48	0	0	0	0	48	0	0	0	0	39	0	0	0	0	48	0	0	0	0
July 2042	44	0	0	0	0	44	0	0	0	0	34	0	0	0	0	44	0	0	0	0
July 2043	40	0	0	0	0	40	0	0	0	0	29	0	0	0	0	40	0	0	0	0
July 2044	35	0	0	0	0	35	0	0	0	0	24	0	0	0	0	35	0	0	0	0
July 2045	30	0	0	0	0	30	0	0	0	0	18	0	0	0	0	30	0	0	0	0
July 2046	24	0	0	0	0	24	0	0	0	0	12	0	0	0	0	24	0	0	0	0
July 2047	19	0	0	0	0	19	0	0	0	0	6	0	0	0	0	19	0	0	0	0
July 2048	13	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13	0	0	0	0
July 2049	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0
July 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)	19.0	4.4	4.0	3.6	2.3	19.0	4.3	3.9	3.6	2.2	17.2	3.6	3.6	3.6	2.3	19.0	4.4	4.0	3.6	2.3

Security Group 8 PSA Prepayment Assumption Rates															
Distribution Date	Class KZ					Class LS					Class MS				
	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	102	102	102	102	102	99	92	91	90	83	99	92	91	90	83
July 2022	103	103	103	103	103	97	75	73	70	51	97	75	73	70	51
July 2023	105	105	105	105	105	96	56	52	49	24	96	56	52	49	24
July 2024	106	106	106	106	106	94	42	37	33	11	94	42	37	33	11
July 2025	108	108	108	108	108	92	31	27	23	5	92	31	27	23	5
July 2026	109	109	109	109	109	91	23	19	16	2	91	23	19	16	2
July 2027	111	111	111	111	101	89	17	14	11	1	89	17	14	11	1
July 2028	113	113	113	113	45	87	13	10	7	0	87	13	10	7	0
July 2029	114	114	114	114	20	85	9	7	5	0	85	9	7	5	0
July 2030	116	116	116	116	9	83	7	5	3	0	83	7	5	3	0
July 2031	118	118	118	118	4	80	5	3	2	0	80	5	3	2	0
July 2032	120	120	120	120	2	78	4	2	2	0	78	4	2	2	0
July 2033	122	110	110	110	1	75	3	2	1	0	75	3	2	1	0
July 2034	123	74	74	74	0	72	2	1	1	0	72	2	1	1	0
July 2035	125	49	49	49	0	69	1	1	0	0	69	1	1	0	0
July 2036	127	33	33	33	0	66	1	1	0	0	66	1	1	0	0
July 2037	129	22	22	22	0	63	1	0	0	0	63	1	0	0	0
July 2038	131	14	14	14	0	60	1	0	0	0	60	1	0	0	0
July 2039	133	9	9	9	0	56	0	0	0	0	56	0	0	0	0
July 2040	135	6	6	6	0	52	0	0	0	0	52	0	0	0	0
July 2041	137	4	4	4	0	48	0	0	0	0	48	0	0	0	0
July 2042	139	2	2	2	0	44	0	0	0	0	44	0	0	0	0
July 2043	141	1	1	1	0	40	0	0	0	0	40	0	0	0	0
July 2044	143	1	1	1	0	35	0	0	0	0	35	0	0	0	0
July 2045	145	0	0	0	0	30	0	0	0	0	30	0	0	0	0
July 2046	148	0	0	0	0	24	0	0	0	0	24	0	0	0	0
July 2047	150	0	0	0	0	19	0	0	0	0	19	0	0	0	0
July 2048	45	0	0	0	0	13	0	0	0	0	13	0	0	0	0
July 2049	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	28.0	15.2	15.2	15.2	8.1	19.0	4.4	4.0	3.6	2.3	19.0	4.4	4.0	3.6	2.3

PSA Prepayment Assumption Rates															
Distribution Date	Class NS					Class SK					Class SL				
	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	99	92	91	90	83	99	92	91	90	83	99	92	91	90	83
July 2022	97	75	73	70	51	97	75	73	70	51	97	75	73	70	51
July 2023	96	56	52	49	24	96	56	52	49	24	96	56	52	49	24
July 2024	94	42	37	33	11	94	42	37	33	11	94	42	37	33	11
July 2025	92	31	27	23	5	92	31	27	23	5	92	31	27	23	5
July 2026	91	23	19	16	2	91	23	19	16	2	91	23	19	16	2
July 2027	89	17	14	11	1	89	17	14	11	1	89	17	14	11	1
July 2028	87	13	10	7	0	87	13	10	7	0	87	13	10	7	0
July 2029	85	9	7	5	0	85	9	7	5	0	85	9	7	5	0
July 2030	83	7	5	3	0	83	7	5	3	0	83	7	5	3	0
July 2031	80	5	3	2	0	80	5	3	2	0	80	5	3	2	0
July 2032	78	4	2	2	0	78	4	2	2	0	78	4	2	2	0
July 2033	75	3	2	1	0	75	3	2	1	0	75	3	2	1	0
July 2034	72	2	1	1	0	72	2	1	1	0	72	2	1	1	0
July 2035	69	1	1	0	0	69	1	1	0	0	69	1	1	0	0
July 2036	66	1	1	0	0	66	1	1	0	0	66	1	1	0	0
July 2037	63	1	0	0	0	63	1	0	0	0	63	1	0	0	0
July 2038	60	1	0	0	0	60	1	0	0	0	60	1	0	0	0
July 2039	56	0	0	0	0	56	0	0	0	0	56	0	0	0	0
July 2040	52	0	0	0	0	52	0	0	0	0	52	0	0	0	0
July 2041	48	0	0	0	0	48	0	0	0	0	48	0	0	0	0
July 2042	44	0	0	0	0	44	0	0	0	0	44	0	0	0	0
July 2043	40	0	0	0	0	40	0	0	0	0	40	0	0	0	0
July 2044	35	0	0	0	0	35	0	0	0	0	35	0	0	0	0
July 2045	30	0	0	0	0	30	0	0	0	0	30	0	0	0	0
July 2046	24	0	0	0	0	24	0	0	0	0	24	0	0	0	0
July 2047	19	0	0	0	0	19	0	0	0	0	19	0	0	0	0
July 2048	13	0	0	0	0	13	0	0	0	0	13	0	0	0	0
July 2049	7	0	0	0	0	7	0	0	0	0	7	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.0	4.4	4.0	3.6	2.3	19.0	4.4	4.0	3.6	2.3	19.0	4.4	4.0	3.6	2.3

Security Group 8 PSA Prepayment Assumption Rates															
Distribution Date	Class SM					Class SN					Class ZK				
	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%	0%	400%	450%	500%	900%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	99	92	91	90	83	99	89	88	87	78	102	102	90	78	0
July 2022	97	75	73	70	51	97	72	69	66	46	103	103	71	39	0
July 2023	96	56	52	49	24	96	54	50	46	21	105	105	55	8	0
July 2024	94	42	37	33	11	94	40	36	31	9	106	106	51	0	0
July 2025	92	31	27	23	5	92	30	25	21	4	108	102	48	0	0
July 2026	91	23	19	16	2	91	22	18	15	2	109	92	42	0	0
July 2027	89	17	14	11	1	89	16	13	10	1	111	79	36	0	0
July 2028	87	13	10	7	0	87	12	9	7	0	113	66	29	0	0
July 2029	85	9	7	5	0	85	9	6	5	0	114	54	23	0	0
July 2030	83	7	5	3	0	83	7	5	3	0	116	43	18	0	0
July 2031	80	5	3	2	0	80	5	3	2	0	118	34	14	0	0
July 2032	78	4	2	2	0	78	4	2	1	0	120	26	11	0	0
July 2033	75	3	2	1	0	75	3	2	1	0	122	20	8	0	0
July 2034	72	2	1	1	0	72	2	1	1	0	123	16	6	0	0
July 2035	69	1	1	0	0	69	1	1	0	0	125	12	4	0	0
July 2036	66	1	1	0	0	66	1	1	0	0	127	9	3	0	0
July 2037	63	1	0	0	0	63	1	0	0	0	129	7	2	0	0
July 2038	60	1	0	0	0	60	1	0	0	0	131	5	2	0	0
July 2039	56	0	0	0	0	56	0	0	0	0	133	4	1	0	0
July 2040	52	0	0	0	0	52	0	0	0	0	135	3	1	0	0
July 2041	48	0	0	0	0	48	0	0	0	0	137	2	1	0	0
July 2042	44	0	0	0	0	44	0	0	0	0	139	1	0	0	0
July 2043	40	0	0	0	0	40	0	0	0	0	141	1	0	0	0
July 2044	35	0	0	0	0	35	0	0	0	0	143	1	0	0	0
July 2045	30	0	0	0	0	30	0	0	0	0	145	0	0	0	0
July 2046	24	0	0	0	0	24	0	0	0	0	148	0	0	0	0
July 2047	19	0	0	0	0	19	0	0	0	0	150	0	0	0	0
July 2048	13	0	0	0	0	13	0	0	0	0	152	0	0	0	0
July 2049	7	0	0	0	0	7	0	0	0	0	81	0	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	19.0	4.4	4.0	3.6	2.3	19.0	4.2	3.8	3.5	2.1	29.1	9.9	5.7	1.8	0.5

Security Groups 4, 5, 6 and 8 PSA Prepayment Assumption Rates													
Distribution Date	Class LT												
	0%	300%	400%	450%	500%	606%	625%	680%	900%	1,000%	1,300%	1,400%	
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	92	89	88	87	85	85	84	80	78	71	69	
July 2022	97	78	72	69	66	61	61	58	48	44	31	27	
July 2023	95	62	53	49	45	38	37	34	22	18	7	5	
July 2024	93	49	39	34	30	23	22	20	10	7	2	1	
July 2025	91	39	28	24	20	14	13	11	4	3	0	0	
July 2026	89	31	20	16	13	8	8	6	2	1	0	0	
July 2027	87	24	14	11	9	5	5	3	1	0	0	0	
July 2028	84	18	11	8	6	3	3	2	0	0	0	0	
July 2029	82	14	8	6	4	2	2	1	0	0	0	0	
July 2030	80	11	6	4	3	1	1	1	0	0	0	0	
July 2031	77	9	4	3	2	1	1	0	0	0	0	0	
July 2032	74	7	3	2	1	0	0	0	0	0	0	0	
July 2033	71	6	2	1	1	0	0	0	0	0	0	0	
July 2034	68	4	2	1	1	0	0	0	0	0	0	0	
July 2035	65	3	1	1	0	0	0	0	0	0	0	0	
July 2036	62	3	1	0	0	0	0	0	0	0	0	0	
July 2037	58	2	1	0	0	0	0	0	0	0	0	0	
July 2038	55	2	0	0	0	0	0	0	0	0	0	0	
July 2039	51	1	0	0	0	0	0	0	0	0	0	0	
July 2040	47	1	0	0	0	0	0	0	0	0	0	0	
July 2041	42	1	0	0	0	0	0	0	0	0	0	0	
July 2042	38	1	0	0	0	0	0	0	0	0	0	0	
July 2043	33	0	0	0	0	0	0	0	0	0	0	0	
July 2044	29	0	0	0	0	0	0	0	0	0	0	0	
July 2045	24	0	0	0	0	0	0	0	0	0	0	0	
July 2046	19	0	0	0	0	0	0	0	0	0	0	0	
July 2047	15	0	0	0	0	0	0	0	0	0	0	0	
July 2048	10	0	0	0	0	0	0	0	0	0	0	0	
July 2049	5	0	0	0	0	0	0	0	0	0	0	0	
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	
Weighted Average													
Life (years)	17.9	5.1	4.1	3.7	3.4	2.9	2.9	2.7	2.2	2.0	1.6	1.5	

Security Group 9 PSA Prepayment Assumption Rates																				
Distribution Date	Classes FJ and SJ					Classes JF and JS					Class JP					Class JZ				
	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	98	93	93	93	93	98	93	93	93	93	98	93	93	93	93	101	101	101	101	101
July 2022	95	80	80	80	80	95	80	80	80	80	95	80	80	80	80	102	102	102	102	102
July 2023	92	65	65	65	57	92	65	65	65	57	92	65	65	65	57	103	103	103	103	103
July 2024	90	52	52	52	39	90	52	52	52	39	90	52	52	52	39	104	104	104	104	104
July 2025	87	41	41	41	27	87	41	41	41	27	87	40	40	40	27	105	105	105	105	105
July 2026	83	31	31	31	18	83	31	31	31	18	83	31	31	31	18	106	106	106	106	106
July 2027	80	23	23	23	13	80	23	23	23	13	80	23	23	23	12	107	107	107	107	107
July 2028	77	18	18	18	9	77	18	18	18	9	76	17	17	17	8	108	108	108	108	108
July 2029	73	13	13	13	6	73	13	13	13	6	73	13	13	13	5	109	109	109	109	109
July 2030	69	10	10	10	4	69	10	10	10	4	69	10	10	10	4	111	111	111	111	111
July 2031	65	8	8	8	3	65	8	8	8	3	65	7	7	7	2	112	112	112	112	112
July 2032	60	6	6	6	2	60	6	6	6	2	60	5	5	5	1	113	113	113	113	113
July 2033	56	4	4	4	1	56	4	4	4	1	56	4	4	4	1	114	114	114	114	114
July 2034	51	3	3	3	1	51	3	3	3	1	51	3	3	3	0	115	115	115	115	115
July 2035	46	2	2	2	1	46	2	2	2	1	46	2	2	2	0	116	116	116	116	116
July 2036	40	2	2	2	0	40	2	2	2	0	40	1	1	1	0	117	117	117	117	92
July 2037	35	1	1	1	0	35	1	1	1	0	34	1	1	1	0	119	119	119	119	61
July 2038	29	1	1	1	0	29	1	1	1	0	28	0	0	0	0	120	120	120	120	40
July 2039	22	1	1	1	0	22	1	1	1	0	22	0	0	0	0	121	121	121	121	26
July 2040	15	1	1	1	0	15	1	1	1	0	15	0	0	0	0	122	122	122	122	17
July 2041	8	0	0	0	0	8	0	0	0	0	8	0	0	0	0	123	90	90	90	11
July 2042	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	125	63	63	63	7
July 2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	44	44	44	4
July 2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	3
July 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	19	2
July 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	1
July 2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	0
July 2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	0
July 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
July 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)	13.2	5.1	5.1	5.1	4.0	13.2	5.1	5.1	5.1	4.0	13.2	5.0	5.0	5.0	4.0	23.2	22.7	22.7	22.7	17.8

PSA Prepayment Assumption Rates																				
Distribution Date	Class LZ					Class PK					Classes TF and TS					Class TP				
	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	105	105	99	86	71	98	93	93	93	93	98	93	93	93	93	98	93	93	93	93
July 2022	109	109	93	53	12	95	80	80	80	80	95	80	80	80	80	95	80	80	80	80
July 2023	114	114	86	21	0	92	65	65	65	57	92	65	65	65	57	92	65	65	65	57
July 2024	120	120	83	5	0	90	52	52	52	39	90	52	52	52	39	90	52	52	52	39
July 2025	125	125	84	0	0	87	40	40	40	27	87	41	41	41	27	87	40	40	40	27
July 2026	131	128	84	0	0	83	31	31	31	18	83	31	31	31	18	83	31	31	31	18
July 2027	137	125	81	0	0	80	23	23	23	12	80	23	23	23	13	80	23	23	23	12
July 2028	143	119	75	0	0	76	17	17	17	8	77	18	18	18	9	76	17	17	17	8
July 2029	150	110	68	0	0	73	13	13	13	5	73	13	13	13	6	73	13	13	13	5
July 2030	157	101	61	0	0	69	10	10	10	4	69	10	10	10	4	69	10	10	10	4
July 2031	164	91	54	0	0	65	7	7	7	2	65	8	8	8	3	65	7	7	7	2
July 2032	171	81	47	0	0	60	5	5	5	1	60	6	6	6	2	60	5	5	5	1
July 2033	179	71	40	0	0	56	4	4	4	1	56	4	4	4	1	56	4	4	4	1
July 2034	188	62	34	0	0	51	3	3	3	0	51	3	3	3	1	51	3	3	3	0
July 2035	196	54	29	0	0	46	2	2	2	0	46	2	2	2	1	46	2	2	2	0
July 2036	205	46	24	0	0	40	1	1	1	0	40	2	2	2	0	40	1	1	1	0
July 2037	215	40	20	0	0	34	1	1	1	0	35	1	1	1	0	34	1	1	1	0
July 2038	224	33	17	0	0	28	0	0	0	0	29	1	1	1	0	28	0	0	0	0
July 2039	235	28	14	0	0	22	0	0	0	0	22	1	1	1	0	22	0	0	0	0
July 2040	246	23	11	0	0	15	0	0	0	0	15	1	1	1	0	15	0	0	0	0
July 2041	257	19	9	0	0	8	0	0	0	0	8	0	0	0	0	8	0	0	0	0
July 2042	269	15	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
July 2043	244	12	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2044	215	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2045	184	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2046	152	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2047	117	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2048	81	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 2049	42	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July 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)	26.4	14.8	11.7	2.2	1.3	13.2	5.0	5.0	5.0	4.0	13.2	5.1	5.1	5.1	4.0	13.2	5.0	5.0	5.0	4.0

Security Group 9 PSA Prepayment Assumption Rates															
Distribution Date	Class TZ					Class ZJ					Class ZT				
	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%	0%	201%	250%	370%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
July 2021	101	101	101	101	101	105	105	99	86	71	105	105	99	86	71
July 2022	102	102	102	102	102	109	109	93	53	12	109	109	93	53	12
July 2023	103	103	103	103	103	114	114	86	21	0	114	114	86	21	0
July 2024	104	104	104	104	104	120	120	83	5	0	120	120	83	5	0
July 2025	105	105	105	105	105	125	125	84	0	0	125	125	84	0	0
July 2026	106	106	106	106	106	131	128	84	0	0	131	128	84	0	0
July 2027	107	107	107	107	107	137	125	81	0	0	137	125	81	0	0
July 2028	108	108	108	108	108	143	119	75	0	0	143	119	75	0	0
July 2029	109	109	109	109	109	150	110	68	0	0	150	110	68	0	0
July 2030	111	111	111	111	111	157	101	61	0	0	157	101	61	0	0
July 2031	112	112	112	112	112	164	91	54	0	0	164	91	54	0	0
July 2032	113	113	113	113	113	171	81	47	0	0	171	81	47	0	0
July 2033	114	114	114	114	114	179	71	40	0	0	179	71	40	0	0
July 2034	115	115	115	115	115	188	62	34	0	0	188	62	34	0	0
July 2035	116	116	116	116	116	196	54	29	0	0	196	54	29	0	0
July 2036	117	117	117	117	92	205	46	24	0	0	205	46	24	0	0
July 2037	119	119	119	119	61	215	40	20	0	0	215	40	20	0	0
July 2038	120	120	120	120	40	224	33	17	0	0	224	33	17	0	0
July 2039	121	121	121	121	26	235	28	14	0	0	235	28	14	0	0
July 2040	122	122	122	122	17	246	23	11	0	0	246	23	11	0	0
July 2041	123	90	90	90	11	257	19	9	0	0	257	19	9	0	0
July 2042	125	63	63	63	7	269	15	7	0	0	269	15	7	0	0
July 2043	44	44	44	44	4	244	12	5	0	0	244	12	5	0	0
July 2044	30	30	30	30	3	215	9	4	0	0	215	9	4	0	0
July 2045	19	19	19	19	2	184	7	3	0	0	184	7	3	0	0
July 2046	12	12	12	12	1	152	5	2	0	0	152	5	2	0	0
July 2047	7	7	7	7	0	117	3	1	0	0	117	3	1	0	0
July 2048	4	4	4	4	0	81	2	1	0	0	81	2	1	0	0
July 2049	1	1	1	1	0	42	1	0	0	0	42	1	0	0	0
July 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	23.2	22.7	22.7	22.7	17.8	26.4	14.8	11.7	2.2	1.3	26.4	14.8	11.7	2.2	1.3

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 1, 2, 4 and 7 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 significantly 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 rates on such Classes are capped at the maximum rates described under “Terms Sheet — Interest Rates.”

Payment Delay: Effect on Yields of the Fixed Rate Classes

The effective yield on any Fixed Rate 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 50 days earlier.

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 AI to Prepayments Assumed Price 3.5%*

PSA Prepayment Assumption Rates				
<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>	<u>1,153%</u>
96.6%	79.4%	60.9%	40.9%	0.0%

Sensitivity of Class BI to Prepayments Assumed Price 3.5%*

PSA Prepayment Assumption Rates				
<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>	<u>1,284%</u>
98.3%	83.0%	66.7%	49.3%	0.1%

Sensitivity of Class IP to Prepayments Assumed Price 4.5%*

PSA Prepayment Assumption Rates				
<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>	<u>1,178%</u>
60.6%	33.7%	34.4%	33.8%	0.1%

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

SECURITY GROUP 2

Sensitivity of Class IB to Prepayments Assumed Price 4.5%*

PSA Prepayment Assumption Rates				
<u>200%</u>	<u>470%</u>	<u>700%</u>	<u>841%</u>	<u>1,000%</u>
49.9%	16.5%	14.7%	0.0%	(19.1)%

SECURITY GROUP 3

Sensitivity of Class IA to Prepayments Assumed Price 17.5%*

PSA Prepayment Assumption Rates				
<u>155%</u>	<u>275%</u>	<u>325%</u>	<u>357%</u>	<u>600%</u>
12.2%	5.1%	2.0%	0.1%	(15.5)%

Sensitivity of Class IY to Prepayments Assumed Price 10.5%*

PSA Prepayment Assumption Rates				
<u>155%</u>	<u>275%</u>	<u>325%</u>	<u>600%</u>	<u>670%</u>
29.7%	23.1%	20.3%	4.3%	0.1%

Sensitivity of Class JI to Prepayments Assumed Price 14.5%*

PSA Prepayment Assumption Rates				
<u>155%</u>	<u>275%</u>	<u>325%</u>	<u>444%</u>	<u>600%</u>
17.4%	10.4%	7.4%	0.1%	(9.9)%

Sensitivity of Class PI to Prepayments Assumed Price 17.5%*

PSA Prepayment Assumption Rates				
<u>155%</u>	<u>275%</u>	<u>325%</u>	<u>423%</u>	<u>600%</u>
5.2%	5.2%	5.2%	0.0%	(11.2)%

Sensitivity of Class SB to Prepayments Assumed Price 20.5%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>155%</u>	<u>275%</u>	<u>325%</u>	<u>600%</u>
0.1000%	20.1%	13.1%	10.1%	(7.2)%
0.1770%	19.7%	12.6%	9.7%	(7.6)%
3.1635%	3.0%	(4.2)%	(7.2)%	(25.0)%
6.1500% 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 4

Sensitivity of Class EI to Prepayments Assumed Price 3.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>680%</u>	<u>1,000%</u>	<u>1,400%</u>	<u>1,429%</u>
102.4%	76.4%	53.9%	4.4%	0.0%

Sensitivity of Class IE to Prepayments Assumed Price 4.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>680%</u>	<u>1,000%</u>	<u>1,113%</u>	<u>1,400%</u>
75.9%	43.7%	12.4%	0.0%	(36.2)%

Sensitivity of Class II to Prepayments Assumed Price 4.0%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>680%</u>	<u>1,000%</u>	<u>1,284%</u>	<u>1,400%</u>
85.7%	58.1%	33.0%	0.1%	(15.9)%

SECURITY GROUP 5

Sensitivity of Class DI to Prepayments Assumed Price 14.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>346%</u>	<u>625%</u>	<u>1,000%</u>	<u>1,300%</u>
2.5%	0.0%	(15.8)%	(38.5)%	(57.5)%

Sensitivity of Class IC to Prepayments Assumed Price 14.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>346%</u>	<u>625%</u>	<u>1,000%</u>	<u>1,300%</u>
2.5%	0.0%	(15.8)%	(38.5)%	(57.5)%

Sensitivity of Class SC to Prepayments Assumed Price 26.5%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>300%</u>	<u>625%</u>	<u>1,000%</u>	<u>1,300%</u>
0.1000%	5.4%	(12.6)%	(34.8)%	(53.3)%
0.1770%	5.1%	(13.0)%	(35.2)%	(53.8)%
3.1635%	(8.8)%	(28.4)%	(53.5)%	(75.3)%
6.1500% 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 6

Sensitivity of Class GI to Prepayments Assumed Price 12.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>512%</u>	<u>606%</u>	<u>1,000%</u>	<u>1,300%</u>
11.3%	0.0%	(5.1)%	(27.4)%	(45.1)%

Sensitivity of Class HI to Prepayments Assumed Price 7.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>606%</u>	<u>841%</u>	<u>1,000%</u>	<u>1,300%</u>
31.5%	14.1%	0.0%	(10.0)%	(29.9)%

Sensitivity of Class IG to Prepayments Assumed Price 12.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>512%</u>	<u>606%</u>	<u>1,000%</u>	<u>1,300%</u>
11.3%	0.0%	(5.1)%	(27.4)%	(45.1)%

Sensitivity of Class IH to Prepayments Assumed Price 7.5%*

PSA Prepayment Assumption Rates				
<u>300%</u>	<u>606%</u>	<u>841%</u>	<u>1,000%</u>	<u>1,300%</u>
31.5%	14.1%	0.0%	(10.0)%	(29.9)%

SECURITY GROUP 7

Sensitivity of Class NI to Prepayments Assumed Price 1.0%*

PSA Prepayment Assumption Rates				
<u>200%</u>	<u>400%</u>	<u>600%</u>	<u>800%</u>	<u>993%</u>
519.9%	369.3%	217.8%	92.6%	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.

SECURITY GROUP 8

Sensitivity of Class KS to Prepayments Assumed Price 19.0%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	11.3%	8.6%	5.9%	(16.6)%
0.1770%	10.8%	8.1%	5.4%	(17.1)%
3.1885%	(8.7)%	(11.6)%	(14.6)%	(40.0)%
6.2000% and above	**	**	**	**

Sensitivity of Class LS to Prepayments Assumed Price 16.5%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	17.4%	14.8%	12.1%	(9.7)%
0.1770%	16.8%	14.2%	11.6%	(10.4)%
3.1885%	(5.6)%	(8.5)%	(11.4)%	(36.3)%
6.2000% and above	**	**	**	**

Sensitivity of Class MS to Prepayments Assumed Price 18.5%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	12.4%	9.7%	7.0%	(15.3)%
0.1770%	11.9%	9.2%	6.5%	(15.9)%
3.1885%	(8.1)%	(11.1)%	(14.0)%	(39.3)%
6.2000% and above	**	**	**	**

Sensitivity of Class NS to Prepayments Assumed Price 24.0%*

<u>LIBOR</u>	PSA Prepayment Assumption Rates			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	3.0%	0.2%	(2.6)%	(26.1)%
0.1770%	2.6%	(0.2)%	(3.0)%	(26.6)%
3.1885%	(12.9)%	(16.0)%	(19.0)%	(45.1)%
6.2000% 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.

Sensitivity of Class SK to Prepayments
Assumed Price 21.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	6.7%	3.9%	1.2%	(21.9)%
0.1770%	6.2%	3.5%	0.7%	(22.4)%
3.1885%	(11.0)%	(14.0)%	(17.0)%	(42.8)%
6.2000% and above	**	**	**	**

Sensitivity of Class SL to Prepayments
Assumed Price 20.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	8.4%	5.7%	2.9%	(19.9)%
0.1770%	7.9%	5.2%	2.5%	(20.4)%
3.1885%	(10.2)%	(13.1)%	(16.1)%	(41.8)%
6.2000% and above	**	**	**	**

Sensitivity of Class SM to Prepayments
Assumed Price 23.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	3.7%	0.9%	(1.9)%	(25.4)%
0.1770%	3.3%	0.5%	(2.3)%	(25.8)%
3.1885%	(12.6)%	(15.6)%	(18.6)%	(44.7)%
6.2000% and above	**	**	**	**

Sensitivity of Class SN to Prepayments
Assumed Price 19.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>400%</u>	<u>450%</u>	<u>500%</u>	<u>900%</u>
0.1000%	9.0%	6.1%	3.2%	(21.3)%
0.1770%	8.5%	5.6%	2.7%	(21.8)%
3.1885%	(10.0)%	(13.0)%	(16.2)%	(42.8)%
6.2000% 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 9

Sensitivity of Class JS to Prepayments Assumed Price 22.75%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>201%</u>	<u>250%</u>	<u>370%</u>	<u>500%</u>
0.1000%	8.7%	8.7%	8.7%	2.5%
0.1770%	8.3%	8.3%	8.3%	2.0%
3.1635%	(8.4)%	(8.4)%	(8.4)%	(15.9)%
6.1500% and above	**	**	**	**

Sensitivity of Class SJ to Prepayments Assumed Price 21.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>201%</u>	<u>250%</u>	<u>370%</u>	<u>500%</u>
0.1000%	10.6%	10.6%	10.6%	4.6%
0.1770%	10.2%	10.2%	10.2%	4.1%
3.1635%	(7.4)%	(7.4)%	(7.4)%	(14.8)%
6.1500% and above	**	**	**	**

Sensitivity of Class TS to Prepayments Assumed Price 20.5%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>201%</u>	<u>250%</u>	<u>370%</u>	<u>500%</u>
0.1000%	12.4%	12.4%	12.4%	6.4%
0.1770%	11.9%	11.9%	11.9%	5.9%
3.1635%	(6.5)%	(6.5)%	(6.5)%	(13.8)%
6.1500% 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.

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 Cadwalader, Wickersham & Taft 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 (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement) is as follows:

<u>Group(s)</u>	<u>PSA</u>
1 and 7	400%
2	470%
3	275%
4	680%
5	625%
6	606%
8	450%
9	250%

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) July 1, 2020 on the Fixed Rate Classes and (2) July 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 Cadwalader, Wickersham & Taft LLP and Marcell Solomon & Associates PC, Bowie, Maryland, and for the Trustee by Aini & Associates PLLC.

Available Combinations(1)

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 3 Combination 1(5) YA	\$ 52,302,278	IY	\$ 39,226,708	NTL(PT)	4.00%	FIX/IO	38382HBY5	July 2050
		TY	52,302,278	PT	2.75	FIX	38382HBZ2	July 2050
		YB	52,302,278	PT	1.00	FIX	38382HCA6	July 2050
		YC	52,302,278	PT	1.25	FIX	38382HCB4	July 2050
		YD	52,302,278	PT	1.50	FIX	38382HCC2	July 2050
		YE	52,302,278	PT	1.75	FIX	38382HCD0	July 2050
		YG	52,302,278	PT	2.00	FIX	38382HCE8	July 2050
		YH	52,302,278	PT	2.25	FIX	38382HCF5	July 2050
		YJ	52,302,278	PT	2.50	FIX	38382HCG3	July 2050
		YK	52,302,278	PT	3.00	FIX	38382HCH1	July 2050
Combination 2(5) P	\$ 30,222,000	PA	\$ 30,222,000	PAC/AD	0.50%	FIX	38382HCJ7	July 2050
		PB	30,222,000	PAC/AD	0.75	FIX	38382HCK4	July 2050
		PC	30,222,000	PAC/AD	1.00	FIX	38382HCL2	July 2050
		PD	30,222,000	PAC/AD	1.25	FIX	38382HCM0	July 2050
		PE	30,222,000	PAC/AD	1.50	FIX	38382HCN8	July 2050
		PG	30,222,000	PAC/AD	1.75	FIX	38382HCP3	July 2050
		PH	30,222,000	PAC/AD	2.00	FIX	38382HCQ1	July 2050
		PI	15,111,000	NTL(PAC/AD)	4.00	FIX/IO	38382HCR9	July 2050
		PJ	30,222,000	PAC/AD	2.25	FIX	38382HCS7	July 2050
		PN	30,222,000	PAC/AD	2.50	FIX	38382HCT5	July 2050
Combination 3(5) BZ P PZ	\$ 8,130,687 30,222,000 100,000	JA	\$ 38,452,687	PT	1.00%	FIX	38382HCU2	July 2050
		JB	38,452,687	PT	1.25	FIX	38382HCV0	July 2050
		JC	38,452,687	PT	1.50	FIX	38382HCW8	July 2050
		JD	38,452,687	PT	1.75	FIX	38382HCX6	July 2050
		JE	38,452,687	PT	2.00	FIX	38382HCY4	July 2050
		JG	38,452,687	PT	2.25	FIX	38382H CZ1	July 2050
		JH	38,452,687	PT	2.50	FIX	38382HDA5	July 2050
		JI	14,419,757	NTL(PT)	4.00	FIX/IO	38382HDB3	July 2050
		JT	10,487,096	PT	6.50	FIX	38382HGG9	July 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)
Combination 4(5) FB SB	\$ 23,071,612 23,071,612	AB	\$ 23,071,612	PT	1.00%	FIX	38382HDC1	July 2050
		AC	23,071,612	PT	1.25	FIX	38382HDD9	July 2050
		AD	23,071,612	PT	1.50	FIX	38382HDE7	July 2050
		AE	23,071,612	PT	1.75	FIX	38382HDF4	July 2050
		AG	23,071,612	PT	2.00	FIX	38382HDG2	July 2050
		AH	23,071,612	PT	2.25	FIX	38382HDH0	July 2050
		AJ	23,071,612	PT	2.50	FIX	38382HDJ6	July 2050
		AT	23,071,612	PT	6.50	FIX	38382HDK3	July 2050
		IA	31,723,466	NTL(PT)	4.00	FIX/IO	38382HDL1	July 2050
Security Group 4 Combination 5(5) EA	\$ 44,438,000	EB	\$ 44,438,000	SC/TAC/AD	0.50%	FIX	38382HDM9	July 2049
		EC	44,438,000	SC/TAC/AD	0.75	FIX	38382HDN7	July 2049
		ED	44,438,000	SC/TAC/AD	1.00	FIX	38382HDP2	July 2049
		EG	44,438,000	SC/TAC/AD	1.25	FIX	38382HDQ0	July 2049
		EH	44,438,000	SC/TAC/AD	1.50	FIX	38382HDR8	July 2049
		EI	22,219,000	NTL(SC/TAC/AD)	4.00	FIX/IO	38382HDS6	July 2049
		EJ	44,438,000	SC/TAC/AD	1.75	FIX	38382HDT4	July 2049
		EK	44,438,000	SC/TAC/AD	2.00	FIX	38382HDU1	July 2049
		EL	44,438,000	SC/TAC/AD	2.25	FIX	38382HDV9	July 2049
Combination 6 EI(6) IE	\$ 16,664,250 6,312,353	LI	\$ 22,976,603	NTL(SC/PT/TAC/AD)	4.00%	FIX/IO	38382HDW7	July 2049
Security Group 5 Combination 7(5) CA FC SC	\$ 69,903,089 34,951,544 34,951,544	CB	\$ 104,854,633	PT	1.00%	FIX	38382HDX5	July 2050
		CD	104,854,633	PT	1.25	FIX	38382HDY3	July 2050
		CE	104,854,633	PT	1.50	FIX	38382HDZ0	July 2050
		CG	104,854,633	PT	1.75	FIX	38382HEA4	July 2050
		CH	104,854,633	PT	2.00	FIX	38382HEB2	July 2050
		CJ	104,854,633	PT	2.25	FIX	38382HEC0	July 2050
		CK	104,854,633	PT	2.50	FIX	38382HED8	July 2050
		CL	104,854,633	PT	2.75	FIX	38382HEEF6	July 2050
		CM	104,854,633	PT	3.00	FIX	38382HEF3	July 2050
		CN	38,128,957	PT	6.50	FIX	38382HEG1	July 2050
		IC	69,903,088	NTL(PT)	3.00	FIX/IO	38382HEH9	July 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)	
Combination 8(5)	FC	\$ 34,951,544	\$ 34,951,544	PT	6.50%	FIX	38382HEJ5	July 2050	
	SC	34,951,544	34,951,544	PT	1.00	FIX	38382HEK2	July 2050	
			34,951,544	PT	1.25	FIX	38382HEL0	July 2050	
			34,951,544	PT	1.50	FIX	38382HEM8	July 2050	
			34,951,544	PT	1.75	FIX	38382HEN6	July 2050	
			34,951,544	PT	2.00	FIX	38382HEP1	July 2050	
			34,951,544	PT	2.25	FIX	38382HEQ9	July 2050	
			64,077,830	NTL(PT)	3.00	FIX/IO	38382HER7	July 2050	
			34,951,544	PT	2.50	FIX	38382HES5	July 2050	
			34,951,544	PT	2.75	FIX	38382HET3	July 2050	
Security Group 6			34,951,544	PT	3.00	FIX	38382HEU0	July 2050	
	Combination 9(5)	GA	\$ 60,391,370	\$ 60,391,370	PT	1.00%	FIX	38382HEV8	July 2050
		GI	25,882,015	60,391,370	PT	1.25	FIX	38382HEW6	July 2050
				60,391,370	PT	1.50	FIX	38382HEX4	July 2050
				60,391,370	PT	1.75	FIX	38382HEY2	July 2050
				60,391,370	PT	2.00	FIX	38382HEZ9	July 2050
				60,391,370	PT	2.25	FIX	38382HFA3	July 2050
				60,391,370	PT	2.50	FIX	38382HFB1	July 2050
				60,391,370	PT	2.75	FIX	38382HFC9	July 2050
				60,391,370	PT	3.00	FIX	38382HFD7	July 2050
			60,391,370	PT	3.25	FIX	38382HFE5	July 2050	
		60,391,370	PT	3.50	FIX	38382HFF2	July 2050		
		43,136,692	NTL(PT)	3.50	FIX/IO	38382HFG0	July 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)
Combination 10(5)								
HA	\$ 39,269,151	HB	\$ 39,269,151	PT	1.00%	FIX	38382HFFH8	July 2050
HI	16,829,636	HC	39,269,151	PT	1.25	FIX	38382HFFJ4	July 2050
		HD	39,269,151	PT	1.50	FIX	38382HFK1	July 2050
		HE	39,269,151	PT	1.75	FIX	38382HFL9	July 2050
		HG	39,269,151	PT	2.00	FIX	38382HFM7	July 2050
		HL	39,269,151	PT	2.25	FIX	38382HFN5	July 2050
		HM	39,269,151	PT	2.50	FIX	38382HFP0	July 2050
		HN	39,269,151	PT	2.75	FIX	38382HFFQ8	July 2050
		HQ	39,269,151	PT	3.00	FIX	38382HFR6	July 2050
		HT	39,269,151	PT	3.50	FIX	38382HFS4	July 2050
		HU	39,269,151	PT	3.25	FIX	38382HFT2	July 2050
		IH	28,049,393	NTL(PT)	3.50	FIX/IO	38382HFU9	July 2050
Combination 11								
GC(6)	\$ 60,391,370	HJ	\$ 99,660,521	PT	1.25%	FIX	38382HFFV7	July 2050
HC(6)	39,269,151							
Combination 12								
GD(6)	\$ 60,391,370	HK	\$ 99,660,521	PT	1.50%	FIX	38382HFFW5	July 2050
HD(6)	39,269,151							
Security Group 8								
Combination 13								
MS	\$ 21,160,725	SK	\$ 40,410,725	NTL(PT)	(7)	INV/IO	38382HFFX3	July 2050
NS	19,250,000							
Combination 14								
LS	\$ 14,839,274	KS	\$ 21,686,274	NTL(PT)	(7)	INV/IO	38382HFFY1	July 2050
SM	6,847,000							
Combination 15								
LS	\$ 14,839,274	SL	\$ 62,096,999	NTL(PT)	(7)	INV/IO	38382HFFZ8	July 2050
MS	21,160,725							
NS	19,250,000							
SM	6,847,000							

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 Groups 4, 5, 6 and 8								
Combination 16(8)								
CG(6)	\$104,854,633	LT	\$288,953,154	SC/PT/TAC/AD	1.75%	FIX	38382HGA2	July 2050
EJ(6)	44,438,000							
GE(6)	60,391,370							
HE(6)	39,269,151							
KA	40,000,000							
Security Group 9								
Combination 17								
JS	\$ 20,904,134	SJ	\$ 43,925,823	NTL(PAC/AD)	(7)	INV/IO	38382HGB0	July 2050
TS	23,021,689							
Combination 18								
ZJ	\$ 6,621,197	LZ	\$ 13,913,111	SUP	4.50%	FIX/Z	38382HGC8	July 2050
ZT	7,291,914							
Combination 19								
JP	\$ 11,897,406	PK	\$ 25,000,000	PAC/AD	1.00%	FIX	38382HGD6	July 2050
TP	13,102,594							
Combination 20								
JF	\$ 20,904,134	FJ	\$ 43,925,823	PAC/AD	(7)	FLT	38382HGE4	July 2050
TF	23,021,689							

(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) In the case of Combinations 1, 2, 3, 4, 5, 7, 8, 9 and 10, various subcombinations are permitted. See “Description of the Securities — Modification and Exchange” in the Base Offering Circular for a discussion of subcombinations.

(6) MX Class.

(7) The Interest Rate will be calculated as described under “Terms Sheet — Interest Rates” in this Supplement.

(8) Derived from REMIC and MX Classes relating to separate Groups.

Schedule II

SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
Initial Balance	\$31,459,000.00	\$105,844,000.00	\$30,322,000.00	\$44,438,000.00
August 2020	30,837,791.58	102,313,778.19	30,170,296.23	43,479,844.58
September 2020	30,195,128.12	98,884,747.45	30,008,622.62	42,484,898.79
October 2020	29,531,947.42	95,554,014.95	29,837,061.28	41,455,353.20
November 2020	28,849,230.78	92,318,769.96	29,655,702.30	40,393,495.85
December 2020	28,148,000.25	89,176,281.58	29,464,643.57	39,301,703.80
January 2021	27,433,080.34	86,123,896.44	29,263,990.77	38,182,434.19
February 2021	26,705,321.24	83,159,036.52	29,053,857.23	37,038,214.83
March 2021	25,965,606.05	80,279,197.03	28,834,363.85	35,871,634.36
April 2021	25,214,848.04	77,481,944.36	28,605,638.94	34,685,332.06
May 2021	24,455,011.83	74,764,914.03	28,367,818.14	33,484,887.26
June 2021	23,688,391.72	72,125,808.77	28,121,044.25	32,272,750.74
July 2021	22,915,816.73	69,562,396.60	27,865,467.09	31,051,396.57
August 2021	22,138,134.88	67,072,509.01	27,601,243.35	29,831,143.22
September 2021	21,359,675.62	64,654,039.12	27,328,536.41	28,628,922.45
October 2021	20,585,530.00	62,304,939.99	27,047,516.15	27,456,770.90
November 2021	19,819,905.74	60,023,222.90	26,758,358.82	26,314,129.67
December 2021	19,063,702.41	57,806,955.71	26,461,246.77	25,205,756.73
January 2022	18,325,044.49	55,654,261.25	26,156,368.29	24,133,926.27
February 2022	17,603,515.15	53,563,315.77	25,843,917.41	23,097,424.20
March 2022	16,898,707.31	51,532,347.43	25,524,093.65	22,095,076.51
April 2022	16,210,223.49	49,559,634.84	25,197,101.80	21,125,748.01
May 2022	15,537,675.53	47,643,505.64	24,863,151.71	20,188,341.01
June 2022	14,880,684.39	45,782,335.06	24,522,458.02	19,281,794.11
July 2022	14,238,879.95	43,974,544.63	24,184,577.26	18,405,081.00
August 2022	13,611,900.78	42,218,600.86	23,849,485.23	17,557,209.31
September 2022	12,999,393.95	40,513,013.95	23,517,157.92	16,737,219.46
October 2022	12,401,014.83	38,856,336.54	23,187,571.54	15,944,183.64
November 2022	11,816,426.89	37,247,162.56	22,860,702.48	15,177,204.70
December 2022	11,245,301.52	35,684,126.00	22,536,527.33	14,435,415.19
January 2023	10,687,317.84	34,165,899.81	22,215,022.86	13,717,976.34
February 2023	10,142,162.52	32,691,194.81	21,896,166.05	13,024,077.15
March 2023	9,609,529.60	31,258,758.56	21,579,934.07	12,352,933.46
April 2023	9,089,120.33	29,867,374.38	21,266,304.27	11,703,787.06
May 2023	8,580,642.97	28,515,860.30	20,955,254.18	11,075,904.83
June 2023	8,083,812.68	27,203,068.09	20,646,761.54	10,468,577.95
July 2023	7,598,351.30	25,927,882.30	20,340,804.25	9,881,121.04
August 2023	7,123,987.24	24,689,219.34	20,037,360.40	9,312,871.45
September 2023	6,660,455.29	23,486,026.54	19,736,408.28	8,763,188.45
October 2023	6,207,496.51	22,317,281.33	19,437,926.32	8,231,452.56
November 2023	5,764,858.04	21,181,990.33	19,141,893.16	7,717,064.82
December 2023	5,332,292.98	20,079,188.56	18,848,287.61	7,219,446.09
January 2024	4,909,560.28	19,007,938.62	18,557,088.64	6,738,036.48
February 2024	4,496,424.53	17,967,329.91	18,268,275.43	6,272,294.60
March 2024	4,092,655.89	16,956,477.86	17,981,827.29	5,821,697.05

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2024	\$ 3,698,029.95	\$ 15,974,523.20	\$17,697,723.72	\$ 5,385,737.76
May 2024	3,312,327.59	15,020,631.25	17,415,944.39	4,963,927.46
June 2024	2,935,334.83	14,093,991.19	17,136,469.14	4,555,793.10
July 2024	2,566,842.78	13,193,815.41	16,859,277.97	4,160,877.33
August 2024	2,206,647.46	12,319,338.85	16,584,351.05	3,778,737.95
September 2024	1,854,549.69	11,469,818.36	16,311,668.72	3,408,947.46
October 2024	1,510,355.03	10,644,532.05	16,041,211.47	3,051,092.53
November 2024	1,173,873.58	9,842,778.71	15,772,959.95	2,704,773.56
December 2024	844,919.98	9,063,877.23	15,506,894.98	2,369,604.23
January 2025	523,313.20	8,307,166.00	15,242,997.55	2,045,211.00
February 2025	208,876.51	7,572,002.37	14,981,248.77	1,731,232.79
March 2025	0.00	6,857,762.13	14,721,629.94	1,427,320.48
April 2025	0.00	6,163,838.94	14,464,122.51	1,133,136.55
May 2025	0.00	5,489,643.88	14,208,708.06	848,354.70
June 2025	0.00	4,834,604.89	13,955,368.35	572,659.48
July 2025	0.00	4,198,166.33	13,704,085.28	305,745.91
August 2025	0.00	3,579,788.53	13,454,840.90	47,319.16
September 2025	0.00	2,978,947.28	13,207,617.41	0.00
October 2025	0.00	2,395,133.42	12,962,397.14	0.00
November 2025	0.00	1,827,852.43	12,719,162.61	0.00
December 2025	0.00	1,276,623.97	12,477,896.43	0.00
January 2026	0.00	740,981.53	12,238,581.39	0.00
February 2026	0.00	220,471.97	12,001,200.42	0.00
March 2026	0.00	0.00	11,765,736.58	0.00
April 2026	0.00	0.00	11,532,173.06	0.00
May 2026	0.00	0.00	11,302,304.17	0.00
June 2026	0.00	0.00	11,076,885.76	0.00
July 2026	0.00	0.00	10,855,833.36	0.00
August 2026	0.00	0.00	10,639,064.06	0.00
September 2026	0.00	0.00	10,426,496.53	0.00
October 2026	0.00	0.00	10,218,050.94	0.00
November 2026	0.00	0.00	10,013,648.97	0.00
December 2026	0.00	0.00	9,813,213.75	0.00
January 2027	0.00	0.00	9,616,669.87	0.00
February 2027	0.00	0.00	9,423,943.32	0.00
March 2027	0.00	0.00	9,234,961.48	0.00
April 2027	0.00	0.00	9,049,653.10	0.00
May 2027	0.00	0.00	8,867,948.24	0.00
June 2027	0.00	0.00	8,689,778.31	0.00
July 2027	0.00	0.00	8,515,075.98	0.00
August 2027	0.00	0.00	8,343,775.19	0.00
September 2027	0.00	0.00	8,175,811.12	0.00
October 2027	0.00	0.00	8,011,120.17	0.00
November 2027	0.00	0.00	7,849,639.92	0.00
December 2027	0.00	0.00	7,691,309.14	0.00
January 2028	0.00	0.00	7,536,067.74	0.00
February 2028	0.00	0.00	7,383,856.77	0.00
March 2028	0.00	0.00	7,234,618.37	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2028	\$ 0.00	\$ 0.00	\$ 7,088,295.78	\$ 0.00
May 2028	0.00	0.00	6,944,833.30	0.00
June 2028	0.00	0.00	6,804,176.28	0.00
July 2028	0.00	0.00	6,666,271.11	0.00
August 2028	0.00	0.00	6,531,065.17	0.00
September 2028	0.00	0.00	6,398,506.83	0.00
October 2028	0.00	0.00	6,268,545.45	0.00
November 2028	0.00	0.00	6,141,131.33	0.00
December 2028	0.00	0.00	6,016,215.71	0.00
January 2029	0.00	0.00	5,893,750.73	0.00
February 2029	0.00	0.00	5,773,689.46	0.00
March 2029	0.00	0.00	5,655,985.85	0.00
April 2029	0.00	0.00	5,540,594.69	0.00
May 2029	0.00	0.00	5,427,471.65	0.00
June 2029	0.00	0.00	5,316,573.23	0.00
July 2029	0.00	0.00	5,207,856.74	0.00
August 2029	0.00	0.00	5,101,280.32	0.00
September 2029	0.00	0.00	4,996,802.86	0.00
October 2029	0.00	0.00	4,894,384.06	0.00
November 2029	0.00	0.00	4,793,984.37	0.00
December 2029	0.00	0.00	4,695,564.98	0.00
January 2030	0.00	0.00	4,599,087.82	0.00
February 2030	0.00	0.00	4,504,515.54	0.00
March 2030	0.00	0.00	4,411,811.49	0.00
April 2030	0.00	0.00	4,320,939.71	0.00
May 2030	0.00	0.00	4,231,864.94	0.00
June 2030	0.00	0.00	4,144,552.56	0.00
July 2030	0.00	0.00	4,058,968.63	0.00
August 2030	0.00	0.00	3,975,079.82	0.00
September 2030	0.00	0.00	3,892,853.46	0.00
October 2030	0.00	0.00	3,812,257.49	0.00
November 2030	0.00	0.00	3,733,260.45	0.00
December 2030	0.00	0.00	3,655,831.48	0.00
January 2031	0.00	0.00	3,579,940.31	0.00
February 2031	0.00	0.00	3,505,557.23	0.00
March 2031	0.00	0.00	3,432,653.11	0.00
April 2031	0.00	0.00	3,361,199.36	0.00
May 2031	0.00	0.00	3,291,167.93	0.00
June 2031	0.00	0.00	3,222,531.31	0.00
July 2031	0.00	0.00	3,155,262.52	0.00
August 2031	0.00	0.00	3,089,335.07	0.00
September 2031	0.00	0.00	3,024,722.99	0.00
October 2031	0.00	0.00	2,961,400.79	0.00
November 2031	0.00	0.00	2,899,343.47	0.00
December 2031	0.00	0.00	2,838,526.52	0.00
January 2032	0.00	0.00	2,778,925.87	0.00
February 2032	0.00	0.00	2,720,517.92	0.00
March 2032	0.00	0.00	2,663,279.52	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2032	\$ 0.00	\$ 0.00	\$ 2,607,187.96	\$ 0.00
May 2032	0.00	0.00	2,552,220.95	0.00
June 2032	0.00	0.00	2,498,356.65	0.00
July 2032	0.00	0.00	2,445,573.61	0.00
August 2032	0.00	0.00	2,393,850.80	0.00
September 2032	0.00	0.00	2,343,167.59	0.00
October 2032	0.00	0.00	2,293,503.74	0.00
November 2032	0.00	0.00	2,244,839.40	0.00
December 2032	0.00	0.00	2,197,155.09	0.00
January 2033	0.00	0.00	2,150,431.71	0.00
February 2033	0.00	0.00	2,104,650.52	0.00
March 2033	0.00	0.00	2,059,793.14	0.00
April 2033	0.00	0.00	2,015,841.55	0.00
May 2033	0.00	0.00	1,972,778.04	0.00
June 2033	0.00	0.00	1,930,585.28	0.00
July 2033	0.00	0.00	1,889,246.25	0.00
August 2033	0.00	0.00	1,848,744.25	0.00
September 2033	0.00	0.00	1,809,062.91	0.00
October 2033	0.00	0.00	1,770,186.18	0.00
November 2033	0.00	0.00	1,732,098.29	0.00
December 2033	0.00	0.00	1,694,783.80	0.00
January 2034	0.00	0.00	1,658,227.55	0.00
February 2034	0.00	0.00	1,622,414.68	0.00
March 2034	0.00	0.00	1,587,330.60	0.00
April 2034	0.00	0.00	1,552,961.01	0.00
May 2034	0.00	0.00	1,519,291.88	0.00
June 2034	0.00	0.00	1,486,309.46	0.00
July 2034	0.00	0.00	1,454,000.25	0.00
August 2034	0.00	0.00	1,422,351.01	0.00
September 2034	0.00	0.00	1,391,348.76	0.00
October 2034	0.00	0.00	1,360,980.76	0.00
November 2034	0.00	0.00	1,331,234.53	0.00
December 2034	0.00	0.00	1,302,097.82	0.00
January 2035	0.00	0.00	1,273,558.61	0.00
February 2035	0.00	0.00	1,245,605.13	0.00
March 2035	0.00	0.00	1,218,225.80	0.00
April 2035	0.00	0.00	1,191,409.31	0.00
May 2035	0.00	0.00	1,165,144.53	0.00
June 2035	0.00	0.00	1,139,420.56	0.00
July 2035	0.00	0.00	1,114,226.71	0.00
August 2035	0.00	0.00	1,089,552.49	0.00
September 2035	0.00	0.00	1,065,387.62	0.00
October 2035	0.00	0.00	1,041,722.01	0.00
November 2035	0.00	0.00	1,018,545.77	0.00
December 2035	0.00	0.00	995,849.20	0.00
January 2036	0.00	0.00	973,622.77	0.00
February 2036	0.00	0.00	951,857.18	0.00
March 2036	0.00	0.00	930,543.25	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2036	\$ 0.00	\$ 0.00	\$ 909,672.02	\$ 0.00
May 2036	0.00	0.00	889,234.69	0.00
June 2036	0.00	0.00	869,222.63	0.00
July 2036	0.00	0.00	849,627.37	0.00
August 2036	0.00	0.00	830,440.62	0.00
September 2036	0.00	0.00	811,654.23	0.00
October 2036	0.00	0.00	793,260.23	0.00
November 2036	0.00	0.00	775,250.79	0.00
December 2036	0.00	0.00	757,618.22	0.00
January 2037	0.00	0.00	740,355.01	0.00
February 2037	0.00	0.00	723,453.78	0.00
March 2037	0.00	0.00	706,907.28	0.00
April 2037	0.00	0.00	690,708.42	0.00
May 2037	0.00	0.00	674,850.24	0.00
June 2037	0.00	0.00	659,325.92	0.00
July 2037	0.00	0.00	644,128.76	0.00
August 2037	0.00	0.00	629,252.20	0.00
September 2037	0.00	0.00	614,689.81	0.00
October 2037	0.00	0.00	600,435.28	0.00
November 2037	0.00	0.00	586,482.42	0.00
December 2037	0.00	0.00	572,825.17	0.00
January 2038	0.00	0.00	559,457.57	0.00
February 2038	0.00	0.00	546,373.80	0.00
March 2038	0.00	0.00	533,568.14	0.00
April 2038	0.00	0.00	521,034.99	0.00
May 2038	0.00	0.00	508,768.83	0.00
June 2038	0.00	0.00	496,764.29	0.00
July 2038	0.00	0.00	485,016.08	0.00
August 2038	0.00	0.00	473,519.02	0.00
September 2038	0.00	0.00	462,268.02	0.00
October 2038	0.00	0.00	451,258.11	0.00
November 2038	0.00	0.00	440,484.40	0.00
December 2038	0.00	0.00	429,942.11	0.00
January 2039	0.00	0.00	419,626.54	0.00
February 2039	0.00	0.00	409,533.08	0.00
March 2039	0.00	0.00	399,657.23	0.00
April 2039	0.00	0.00	389,994.56	0.00
May 2039	0.00	0.00	380,540.73	0.00
June 2039	0.00	0.00	371,291.50	0.00
July 2039	0.00	0.00	362,242.69	0.00
August 2039	0.00	0.00	353,390.22	0.00
September 2039	0.00	0.00	344,730.08	0.00
October 2039	0.00	0.00	336,258.34	0.00
November 2039	0.00	0.00	327,971.15	0.00
December 2039	0.00	0.00	319,864.74	0.00
January 2040	0.00	0.00	311,935.41	0.00
February 2040	0.00	0.00	304,179.53	0.00
March 2040	0.00	0.00	296,593.55	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2040	\$ 0.00	\$ 0.00	\$ 289,173.97	\$ 0.00
May 2040	0.00	0.00	281,917.39	0.00
June 2040	0.00	0.00	274,820.45	0.00
July 2040	0.00	0.00	267,879.87	0.00
August 2040	0.00	0.00	261,092.42	0.00
September 2040	0.00	0.00	254,454.97	0.00
October 2040	0.00	0.00	247,964.40	0.00
November 2040	0.00	0.00	241,617.70	0.00
December 2040	0.00	0.00	235,411.89	0.00
January 2041	0.00	0.00	229,344.06	0.00
February 2041	0.00	0.00	223,411.34	0.00
March 2041	0.00	0.00	217,610.96	0.00
April 2041	0.00	0.00	211,940.15	0.00
May 2041	0.00	0.00	206,396.24	0.00
June 2041	0.00	0.00	200,976.59	0.00
July 2041	0.00	0.00	195,678.62	0.00
August 2041	0.00	0.00	190,499.79	0.00
September 2041	0.00	0.00	185,437.63	0.00
October 2041	0.00	0.00	180,489.70	0.00
November 2041	0.00	0.00	175,653.62	0.00
December 2041	0.00	0.00	170,927.06	0.00
January 2042	0.00	0.00	166,307.73	0.00
February 2042	0.00	0.00	161,793.38	0.00
March 2042	0.00	0.00	157,381.81	0.00
April 2042	0.00	0.00	153,070.87	0.00
May 2042	0.00	0.00	148,858.46	0.00
June 2042	0.00	0.00	144,742.50	0.00
July 2042	0.00	0.00	140,720.95	0.00
August 2042	0.00	0.00	136,791.85	0.00
September 2042	0.00	0.00	132,953.23	0.00
October 2042	0.00	0.00	129,203.19	0.00
November 2042	0.00	0.00	125,539.87	0.00
December 2042	0.00	0.00	121,961.42	0.00
January 2043	0.00	0.00	118,466.05	0.00
February 2043	0.00	0.00	115,052.01	0.00
March 2043	0.00	0.00	111,717.56	0.00
April 2043	0.00	0.00	108,461.03	0.00
May 2043	0.00	0.00	105,280.75	0.00
June 2043	0.00	0.00	102,175.10	0.00
July 2043	0.00	0.00	99,142.49	0.00
August 2043	0.00	0.00	96,181.37	0.00
September 2043	0.00	0.00	93,290.21	0.00
October 2043	0.00	0.00	90,467.51	0.00
November 2043	0.00	0.00	87,711.82	0.00
December 2043	0.00	0.00	85,021.68	0.00
January 2044	0.00	0.00	82,395.71	0.00
February 2044	0.00	0.00	79,832.52	0.00
March 2044	0.00	0.00	77,330.76	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2044	\$ 0.00	\$ 0.00	\$ 74,889.11	\$ 0.00
May 2044	0.00	0.00	72,506.28	0.00
June 2044	0.00	0.00	70,180.99	0.00
July 2044	0.00	0.00	67,912.01	0.00
August 2044	0.00	0.00	65,698.10	0.00
September 2044	0.00	0.00	63,538.09	0.00
October 2044	0.00	0.00	61,430.81	0.00
November 2044	0.00	0.00	59,375.10	0.00
December 2044	0.00	0.00	57,369.84	0.00
January 2045	0.00	0.00	55,413.95	0.00
February 2045	0.00	0.00	53,506.34	0.00
March 2045	0.00	0.00	51,645.95	0.00
April 2045	0.00	0.00	49,831.76	0.00
May 2045	0.00	0.00	48,062.75	0.00
June 2045	0.00	0.00	46,337.93	0.00
July 2045	0.00	0.00	44,656.34	0.00
August 2045	0.00	0.00	43,017.02	0.00
September 2045	0.00	0.00	41,419.04	0.00
October 2045	0.00	0.00	39,861.49	0.00
November 2045	0.00	0.00	38,343.47	0.00
December 2045	0.00	0.00	36,864.12	0.00
January 2046	0.00	0.00	35,422.58	0.00
February 2046	0.00	0.00	34,018.00	0.00
March 2046	0.00	0.00	32,649.57	0.00
April 2046	0.00	0.00	31,316.47	0.00
May 2046	0.00	0.00	30,017.94	0.00
June 2046	0.00	0.00	28,753.18	0.00
July 2046	0.00	0.00	27,521.45	0.00
August 2046	0.00	0.00	26,322.01	0.00
September 2046	0.00	0.00	25,154.12	0.00
October 2046	0.00	0.00	24,017.09	0.00
November 2046	0.00	0.00	22,910.22	0.00
December 2046	0.00	0.00	21,832.83	0.00
January 2047	0.00	0.00	20,784.25	0.00
February 2047	0.00	0.00	19,763.83	0.00
March 2047	0.00	0.00	18,770.93	0.00
April 2047	0.00	0.00	17,804.93	0.00
May 2047	0.00	0.00	16,865.21	0.00
June 2047	0.00	0.00	15,951.18	0.00
July 2047	0.00	0.00	15,062.25	0.00
August 2047	0.00	0.00	14,197.84	0.00
September 2047	0.00	0.00	13,357.39	0.00
October 2047	0.00	0.00	12,540.36	0.00
November 2047	0.00	0.00	11,746.20	0.00
December 2047	0.00	0.00	10,974.38	0.00
January 2048	0.00	0.00	10,224.40	0.00
February 2048	0.00	0.00	9,495.74	0.00
March 2048	0.00	0.00	8,787.90	0.00

<u>Distribution Date</u>	<u>Class AP</u>	<u>Class BP</u>	<u>Classes P and PZ (in the aggregate)</u>	<u>Class EA</u>
April 2048	\$ 0.00	\$ 0.00	\$ 8,100.42	\$ 0.00
May 2048	0.00	0.00	7,432.80	0.00
June 2048	0.00	0.00	6,784.59	0.00
July 2048	0.00	0.00	6,155.34	0.00
August 2048	0.00	0.00	5,544.59	0.00
September 2048	0.00	0.00	4,951.92	0.00
October 2048	0.00	0.00	4,376.89	0.00
November 2048	0.00	0.00	3,819.10	0.00
December 2048	0.00	0.00	3,278.13	0.00
January 2049	0.00	0.00	2,753.58	0.00
February 2049	0.00	0.00	2,245.07	0.00
March 2049	0.00	0.00	1,752.21	0.00
April 2049	0.00	0.00	1,274.63	0.00
May 2049	0.00	0.00	811.97	0.00
June 2049	0.00	0.00	363.85	0.00
July 2049 and thereafter	0.00	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
Initial Balance	\$38,568,000.00	\$32,849,354.00	\$36,176,940.00
August 2020	38,381,668.60	32,722,058.91	36,036,750.13
September 2020	38,167,496.93	32,581,280.38	35,881,710.95
October 2020	37,926,913.78	32,427,081.32	35,711,891.78
November 2020	37,660,084.07	32,259,538.46	35,527,377.10
December 2020	37,367,229.29	32,078,742.32	35,328,266.61
January 2021	37,048,627.35	31,884,797.10	35,114,675.05
February 2021	36,704,612.39	31,677,820.65	34,886,732.21
March 2021	36,335,574.33	31,457,944.30	34,644,582.75
April 2021	35,941,958.21	31,225,312.82	34,388,386.07
May 2021	35,524,263.41	30,980,084.17	34,118,316.16
June 2021	35,083,042.62	30,722,429.38	33,834,561.35
July 2021	34,618,900.60	30,452,532.33	33,537,324.17
August 2021	34,132,492.84	30,170,589.52	33,226,821.01
September 2021	33,624,523.93	29,876,809.85	32,903,281.93
October 2021	33,095,745.85	29,571,414.30	32,566,950.30
November 2021	32,546,955.96	29,254,635.69	32,218,082.53
December 2021	31,978,994.94	28,926,718.34	31,856,947.69
January 2022	31,392,744.50	28,587,917.74	31,483,827.14
February 2022	30,789,124.93	28,238,500.20	31,099,014.17
March 2022	30,169,092.53	27,878,742.48	30,702,813.57
April 2022	29,533,636.87	27,508,931.38	30,295,541.20
May 2022	28,883,777.95	27,129,363.34	29,877,523.53
June 2022	28,220,563.20	26,740,344.03	29,449,097.19
July 2022	27,545,064.42	26,342,187.86	29,010,608.45
August 2022	26,858,374.62	25,935,217.58	28,562,412.74
September 2022	26,161,604.69	25,519,763.76	28,104,874.12
October 2022	25,455,880.16	25,096,164.30	27,638,364.71
November 2022	24,750,855.97	24,676,991.06	27,176,729.91
December 2022	24,062,514.28	24,262,193.40	26,719,913.92
January 2023	23,390,461.62	23,851,721.19	26,267,861.54
February 2023	22,734,313.73	23,445,524.86	25,820,518.18
March 2023	22,093,695.33	23,043,555.38	25,377,829.83
April 2023	21,468,239.93	22,645,764.23	24,939,743.08
May 2023	20,857,589.61	22,252,103.43	24,506,205.08
June 2023	20,261,394.83	21,862,525.52	24,077,163.56
July 2023	19,679,314.23	21,476,983.55	23,652,566.81
August 2023	19,111,014.45	21,095,431.06	23,232,363.68
September 2023	18,556,169.91	20,717,822.13	22,816,503.57
October 2023	18,014,462.69	20,344,111.30	22,404,936.43
November 2023	17,485,582.30	19,974,253.61	21,997,612.76
December 2023	16,969,225.52	19,608,204.60	21,594,483.57
January 2024	16,465,096.23	19,245,920.27	21,195,500.43
February 2024	15,972,905.27	18,887,357.12	20,800,615.41
March 2024	15,492,370.24	18,532,472.09	20,409,781.10
April 2024	15,023,215.36	18,181,222.61	20,022,950.62
May 2024	14,565,171.33	17,833,566.56	19,640,077.57

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
June 2024	\$14,117,975.14	\$17,489,462.27	\$19,261,116.07
July 2024	13,681,369.96	17,148,868.52	18,886,020.73
August 2024	13,257,373.02	16,811,744.56	18,514,746.65
September 2024	12,846,392.96	16,478,050.03	18,147,249.41
October 2024	12,448,033.14	16,147,745.06	17,783,485.08
November 2024	12,061,908.93	15,820,790.17	17,423,410.19
December 2024	11,687,647.35	15,497,146.34	17,066,981.75
January 2025	11,324,886.71	15,176,774.93	16,714,157.24
February 2025	10,973,276.30	14,859,637.75	16,364,894.57
March 2025	10,632,476.02	14,545,697.01	16,019,152.15
April 2025	10,302,156.08	14,234,915.32	15,676,888.78
May 2025	9,981,996.71	13,927,255.73	15,338,063.76
June 2025	9,671,687.81	13,622,681.63	15,002,636.81
July 2025	9,370,928.70	13,321,156.85	14,670,568.06
August 2025	9,079,427.81	13,022,665.13	14,341,839.60
September 2025	8,796,902.41	12,730,732.00	14,020,334.12
October 2025	8,523,078.37	12,445,215.37	13,705,895.12
November 2025	8,257,689.86	12,165,976.17	13,398,369.44
December 2025	8,000,479.13	11,892,878.33	13,097,607.22
January 2026	7,751,196.23	11,625,788.68	12,803,461.83
February 2026	7,509,598.83	11,364,576.94	12,515,789.76
March 2026	7,275,451.95	11,109,115.59	12,234,450.59
April 2026	7,048,527.72	10,859,279.87	11,959,306.92
May 2026	6,828,605.24	10,614,947.69	11,690,224.28
June 2026	6,615,470.27	10,375,999.59	11,427,071.12
July 2026	6,408,915.12	10,142,318.66	11,169,718.69
August 2026	6,208,738.40	9,913,790.51	10,918,041.01
September 2026	6,014,744.82	9,690,303.20	10,671,914.80
October 2026	5,826,745.06	9,471,747.22	10,431,219.45
November 2026	5,644,555.54	9,258,015.39	10,195,836.93
December 2026	5,467,998.26	9,049,002.82	9,965,651.73
January 2027	5,296,900.65	8,844,606.92	9,740,550.85
February 2027	5,131,095.38	8,644,727.27	9,520,423.71
March 2027	4,970,420.20	8,449,265.61	9,305,162.11
April 2027	4,814,717.82	8,258,125.82	9,094,660.16
May 2027	4,663,835.73	8,071,213.82	8,888,814.28
June 2027	4,517,626.05	7,888,437.57	8,687,523.09
July 2027	4,375,945.44	7,709,707.00	8,490,687.41
August 2027	4,238,654.88	7,534,934.00	8,298,210.18
September 2027	4,105,619.61	7,364,032.32	8,109,996.44
October 2027	3,976,708.97	7,196,917.61	7,925,953.28
November 2027	3,851,796.30	7,033,507.31	7,745,989.77
December 2027	3,730,758.76	6,873,720.63	7,570,016.97
January 2028	3,613,477.30	6,717,478.56	7,397,947.83
February 2028	3,499,836.48	6,564,703.76	7,229,697.18
March 2028	3,389,724.37	6,415,320.55	7,065,181.70
April 2028	3,283,032.46	6,269,254.92	6,904,319.86

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
May 2028	\$ 3,179,655.58	\$ 6,126,434.42	\$ 6,747,031.87
June 2028	3,079,491.72	5,986,788.17	6,593,239.68
July 2028	2,982,442.02	5,850,246.84	6,442,866.94
August 2028	2,888,410.63	5,716,742.57	6,295,838.90
September 2028	2,797,304.62	5,586,208.97	6,152,082.46
October 2028	2,709,033.90	5,458,581.10	6,011,526.10
November 2028	2,623,511.14	5,333,795.41	5,874,099.81
December 2028	2,540,651.66	5,211,789.71	5,739,735.14
January 2029	2,460,373.39	5,092,503.18	5,608,365.07
February 2029	2,382,596.76	4,975,876.28	5,479,924.06
March 2029	2,307,244.62	4,861,850.80	5,354,347.97
April 2029	2,234,242.21	4,750,369.74	5,231,574.07
May 2029	2,163,517.02	4,641,377.38	5,111,540.95
June 2029	2,094,998.77	4,534,819.15	4,994,188.55
July 2029	2,028,619.36	4,430,641.72	4,879,458.12
August 2029	1,964,312.73	4,328,792.87	4,767,292.14
September 2029	1,902,014.86	4,229,221.53	4,657,634.39
October 2029	1,841,663.71	4,131,877.73	4,550,429.81
November 2029	1,783,199.11	4,036,712.57	4,445,624.58
December 2029	1,726,562.74	3,943,678.23	4,343,166.01
January 2030	1,671,698.09	3,852,727.91	4,243,002.57
February 2030	1,618,550.34	3,763,815.83	4,145,083.84
March 2030	1,567,066.40	3,676,897.20	4,049,360.49
April 2030	1,517,194.76	3,591,928.20	3,955,784.27
May 2030	1,468,885.53	3,508,865.97	3,864,307.97
June 2030	1,422,090.32	3,427,668.56	3,774,885.39
July 2030	1,376,762.24	3,348,294.94	3,687,471.35
August 2030	1,332,855.83	3,270,704.97	3,602,021.65
September 2030	1,290,327.04	3,194,859.38	3,518,493.03
October 2030	1,249,133.16	3,120,719.76	3,436,843.18
November 2030	1,209,232.79	3,048,248.52	3,357,030.72
December 2030	1,170,585.81	2,977,408.89	3,279,015.14
January 2031	1,133,153.34	2,908,164.90	3,202,756.85
February 2031	1,096,897.67	2,840,481.36	3,128,217.08
March 2031	1,061,782.26	2,774,323.86	3,055,357.93
April 2031	1,027,771.71	2,709,658.70	2,984,142.30
May 2031	994,831.68	2,646,452.96	2,914,533.92
June 2031	962,928.92	2,584,674.40	2,846,497.29
July 2031	932,031.17	2,524,291.49	2,779,997.69
August 2031	902,107.19	2,465,273.40	2,715,001.16
September 2031	873,126.68	2,407,589.95	2,651,474.48
October 2031	845,060.28	2,351,211.64	2,589,385.12
November 2031	817,879.54	2,296,109.58	2,528,701.32
December 2031	791,556.89	2,242,255.53	2,469,391.94
January 2032	766,065.59	2,189,621.88	2,411,426.59
February 2032	741,379.75	2,138,181.59	2,354,775.48
March 2032	717,474.25	2,087,908.22	2,299,409.50

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
April 2032	\$ 694,324.78	\$ 2,038,775.92	\$ 2,245,300.18
May 2032	671,907.74	1,990,759.39	2,192,419.65
June 2032	650,200.29	1,943,833.88	2,140,740.66
July 2032	629,180.28	1,897,975.19	2,090,236.56
August 2032	608,826.24	1,853,159.64	2,040,881.27
September 2032	589,117.38	1,809,364.08	1,992,649.28
October 2032	570,033.54	1,766,565.83	1,945,515.65
November 2032	551,555.18	1,724,742.76	1,899,455.96
December 2032	533,663.37	1,683,873.17	1,854,446.35
January 2033	516,339.76	1,643,935.87	1,810,463.47
February 2033	499,566.59	1,604,910.12	1,767,484.47
March 2033	483,326.61	1,566,775.62	1,725,487.01
April 2033	467,603.14	1,529,512.55	1,684,449.25
May 2033	452,379.98	1,493,101.49	1,644,349.81
June 2033	437,641.48	1,457,523.45	1,605,167.77
July 2033	423,372.43	1,422,759.88	1,566,882.70
August 2033	409,558.11	1,388,792.60	1,529,474.59
September 2033	396,184.25	1,355,603.85	1,492,923.88
October 2033	383,237.04	1,323,176.27	1,457,211.43
November 2033	370,703.08	1,291,492.84	1,422,318.53
December 2033	358,569.39	1,260,536.96	1,388,226.87
January 2034	346,823.39	1,230,292.37	1,354,918.55
February 2034	335,452.89	1,200,743.16	1,322,376.05
March 2034	324,446.09	1,171,873.78	1,290,582.25
April 2034	313,791.55	1,143,669.02	1,259,520.39
May 2034	303,478.18	1,116,114.01	1,229,174.10
June 2034	293,495.24	1,089,194.19	1,199,527.35
July 2034	283,832.32	1,062,895.33	1,170,564.46
August 2034	274,479.34	1,037,203.52	1,142,270.11
September 2034	265,426.52	1,012,105.14	1,114,629.31
October 2034	256,664.41	987,586.89	1,087,627.39
November 2034	248,183.82	963,635.73	1,061,250.02
December 2034	239,975.88	940,238.94	1,035,483.18
January 2035	232,031.97	917,384.06	1,010,313.14
February 2035	224,343.75	895,058.92	985,726.49
March 2035	216,903.14	873,251.60	961,710.13
April 2035	209,702.32	851,950.45	938,251.21
May 2035	202,733.69	831,144.08	915,337.19
June 2035	195,989.91	810,821.36	892,955.80
July 2035	189,463.85	790,971.37	871,095.05
August 2035	183,148.63	771,583.48	849,743.19
September 2035	177,037.56	752,647.26	828,888.76
October 2035	171,124.16	734,152.51	808,520.53
November 2035	165,402.17	716,089.28	788,627.52
December 2035	159,865.52	698,447.82	769,199.00
January 2036	154,508.30	681,218.59	750,224.49
February 2036	149,324.84	664,392.29	731,693.70

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
March 2036	\$ 144,309.60	\$ 647,959.79	\$ 713,596.62
April 2036	139,457.24	631,912.19	695,923.42
May 2036	134,762.57	616,240.77	678,664.51
June 2036	130,220.57	600,937.00	661,810.50
July 2036	125,826.38	585,992.56	645,352.22
August 2036	121,575.30	571,399.30	629,280.68
September 2036	117,462.76	557,149.25	613,587.12
October 2036	113,484.34	543,234.62	598,262.96
November 2036	109,635.76	529,647.79	583,299.81
December 2036	105,912.88	516,381.31	568,689.45
January 2037	102,311.68	503,427.90	554,423.88
February 2037	98,828.27	490,780.43	540,495.24
March 2037	95,458.89	478,431.93	526,895.87
April 2037	92,199.88	466,375.61	513,618.26
May 2037	89,047.72	454,604.80	500,655.09
June 2037	85,998.98	443,112.99	487,999.18
July 2037	83,050.34	431,893.82	475,643.52
August 2037	80,198.60	420,941.06	463,581.26
September 2037	77,440.64	410,248.63	451,805.70
October 2037	74,773.47	399,810.57	440,310.28
November 2037	72,194.15	389,621.07	429,088.60
December 2037	69,699.86	379,674.44	418,134.40
January 2038	67,287.88	369,965.12	407,441.54
February 2038	64,955.55	360,487.68	397,004.05
March 2038	62,700.31	351,236.79	386,816.06
April 2038	60,519.68	342,207.27	376,871.86
May 2038	58,411.24	333,394.02	367,165.85
June 2038	56,372.67	324,792.09	357,692.56
July 2038	54,401.72	316,396.61	348,446.63
August 2038	52,496.20	308,202.85	339,422.85
September 2038	50,654.00	300,206.15	330,616.10
October 2038	48,873.06	292,401.98	322,021.37
November 2038	47,151.41	284,785.90	313,633.80
December 2038	45,487.13	277,353.58	305,448.60
January 2039	43,878.36	270,100.77	297,461.09
February 2039	42,323.29	263,023.34	289,666.73
March 2039	40,820.19	256,117.23	282,061.04
April 2039	39,367.37	249,378.47	274,639.66
May 2039	37,963.19	242,803.21	267,398.33
June 2039	36,606.08	236,387.65	260,332.88
July 2039	35,294.49	230,128.09	253,439.24
August 2039	34,026.96	224,020.91	246,713.42
September 2039	32,802.04	218,062.59	240,151.53
October 2039	31,618.35	212,249.67	233,749.76
November 2039	30,474.54	206,578.76	227,504.40
December 2039	29,369.30	201,046.56	221,411.81
January 2040	28,301.38	195,649.86	215,468.42

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
February 2040	\$ 27,269.56	\$ 190,385.49	\$ 209,670.78
March 2040	26,272.66	185,250.36	204,015.48
April 2040	25,309.53	180,241.47	198,499.20
May 2040	24,379.06	175,355.88	193,118.69
June 2040	23,480.19	170,590.69	187,870.80
July 2040	22,611.87	165,943.10	182,752.41
August 2040	21,773.11	161,410.35	177,760.51
September 2040	20,962.93	156,989.76	172,892.12
October 2040	20,180.39	152,678.69	168,144.35
November 2040	19,424.58	148,474.59	163,514.38
December 2040	18,694.63	144,374.94	158,999.44
January 2041	17,989.66	140,377.29	154,596.83
February 2041	17,308.88	136,479.23	150,303.91
March 2041	16,651.46	132,678.43	146,118.09
April 2041	16,016.65	128,972.60	142,036.87
May 2041	15,403.69	125,359.50	138,057.77
June 2041	14,811.85	121,836.94	134,178.38
July 2041	14,240.45	118,402.79	130,396.35
August 2041	13,688.79	115,054.95	126,709.38
September 2041	13,156.23	111,791.39	123,115.23
October 2041	12,642.13	108,610.11	119,611.69
November 2041	12,145.87	105,509.16	116,196.62
December 2041	11,666.87	102,486.64	112,867.92
January 2042	11,204.54	99,540.68	109,623.54
February 2042	10,758.33	96,669.47	106,461.48
March 2042	10,327.69	93,871.23	103,379.79
April 2042	9,912.12	91,144.23	100,376.54
May 2042	9,511.11	88,486.76	97,449.87
June 2042	9,124.16	85,897.17	94,597.96
July 2042	8,750.81	83,373.84	91,819.02
August 2042	8,390.60	80,915.18	89,111.31
September 2042	8,043.08	78,519.66	86,473.12
October 2042	7,707.84	76,185.75	83,902.80
November 2042	7,384.46	73,911.99	81,398.70
December 2042	7,072.53	71,696.92	78,959.26
January 2043	6,771.67	69,539.15	76,582.90
February 2043	6,481.51	67,437.29	74,268.13
March 2043	6,201.69	65,389.99	72,013.45
April 2043	5,931.85	63,395.96	69,817.41
May 2043	5,671.66	61,453.89	67,678.62
June 2043	5,420.79	59,562.53	65,595.67
July 2043	5,178.92	57,720.67	63,567.23
August 2043	4,945.75	55,927.10	61,591.98
September 2043	4,720.98	54,180.66	59,668.62
October 2043	4,504.32	52,480.19	57,795.90
November 2043	4,295.50	50,824.59	55,972.59
December 2043	4,094.25	49,212.77	54,197.49

Distribution Date	Classes KP and KZ (in the aggregate)	Classes JF, JP and JZ (in the aggregate)	Classes TF, TP and TZ (in the aggregate)
January 2044	\$ 3,900.30	\$ 47,643.66	\$ 52,469.43
February 2044	3,713.42	46,116.21	50,787.26
March 2044	3,533.35	44,629.43	49,149.87
April 2044	3,359.87	43,182.30	47,556.15
May 2044	3,192.74	41,773.87	46,005.04
June 2044	3,031.76	40,403.18	44,495.51
July 2044	2,876.69	39,069.31	43,026.52
August 2044	2,727.35	37,771.36	41,597.09
September 2044	2,583.53	36,508.45	40,206.25
October 2044	2,445.04	35,279.71	38,853.04
November 2044	2,311.70	34,084.30	37,536.54
December 2044	2,183.33	32,921.40	36,255.84
January 2045	2,059.75	31,790.21	35,010.06
February 2045	1,940.80	30,689.95	33,798.34
March 2045	1,826.32	29,619.84	32,619.84
April 2045	1,716.14	28,579.15	31,473.72
May 2045	1,610.13	27,567.13	30,359.19
June 2045	1,508.13	26,583.09	29,275.46
July 2045	1,410.00	25,626.31	28,221.77
August 2045	1,315.61	24,696.13	27,197.36
September 2045	1,224.83	23,791.88	26,201.51
October 2045	1,137.52	22,912.90	25,233.50
November 2045	1,053.57	22,058.58	24,292.63
December 2045	972.85	21,228.28	23,378.22
January 2046	895.26	20,421.41	22,489.62
February 2046	820.67	19,637.38	21,626.16
March 2046	748.99	18,875.61	20,787.23
April 2046	680.11	18,135.54	19,972.19
May 2046	613.92	17,416.62	19,180.44
June 2046	550.34	16,718.31	18,411.40
July 2046	489.27	16,040.11	17,664.49
August 2046	430.62	15,381.48	16,939.15
September 2046	374.30	14,741.95	16,234.83
October 2046	320.24	14,121.01	15,551.00
November 2046	268.33	13,518.20	14,887.12
December 2046	218.52	12,933.05	14,242.70
January 2047	170.72	12,365.11	13,617.23
February 2047	124.86	11,813.94	13,010.22
March 2047	80.86	11,279.11	12,421.21
April 2047	38.67	10,760.19	11,849.73
May 2047	0.00	10,256.78	11,295.33
June 2047	0.00	9,768.48	10,757.56
July 2047	0.00	9,294.90	10,236.01
August 2047	0.00	8,835.64	9,730.23
September 2047	0.00	8,390.35	9,239.83
October 2047	0.00	7,958.66	8,764.41
November 2047	0.00	7,540.21	8,303.58

<u>Distribution Date</u>	<u>Classes KP and KZ (in the aggregate)</u>	<u>Classes JF, JP and JZ (in the aggregate)</u>	<u>Classes TF, TP and TZ (in the aggregate)</u>
December 2047	\$ 0.00	\$ 7,134.66	\$ 7,856.95
January 2048	0.00	6,741.67	7,424.15
February 2048	0.00	6,360.91	7,004.82
March 2048	0.00	5,992.06	6,598.60
April 2048	0.00	5,634.81	6,205.15
May 2048	0.00	5,288.84	5,824.14
June 2048	0.00	4,953.86	5,455.23
July 2048	0.00	4,629.58	5,098.10
August 2048	0.00	4,315.72	4,752.45
September 2048	0.00	4,011.99	4,417.95
October 2048	0.00	3,718.13	4,094.32
November 2048	0.00	3,433.87	3,781.27
December 2048	0.00	3,158.96	3,478.51
January 2049	0.00	2,893.14	3,185.76
February 2049	0.00	2,636.17	2,902.76
March 2049	0.00	2,387.81	2,629.24
April 2049	0.00	2,147.83	2,364.95
May 2049	0.00	1,915.99	2,109.63
June 2049	0.00	1,692.08	1,863.04
July 2049	0.00	1,475.89	1,624.94
August 2049	0.00	1,267.19	1,395.11
September 2049	0.00	1,065.79	1,173.30
October 2049	0.00	871.48	959.31
November 2049	0.00	684.07	752.91
December 2049	0.00	503.36	553.90
January 2050	0.00	329.18	362.07
February 2050	0.00	161.33	177.23
March 2050 and thereafter	0.00	0.00	0.00

Underlying Certificates

Trust Asset Group or Subgroup	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(I)	Final Distribution Date	Principal Type(I)	Original Principal Balance of Class	Underlying Certificate Factor(2)	Principal Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
1A	Ginnie Mae	2019-044	QA(3)	April 30, 2019	38381TQT5	3.25%	FIX	April 2049	PAC/AD	\$ 40,000,000	0.36076899	\$ 14,430,759	100.000000000000%	II
1A	Ginnie Mae	2019-056	PB(3)	May 30, 2019	38381VWY2	3.25	FIX	May 2049	PAC/AD	20,000,000	0.35396383	7,079,276	100.000000000000	II
1B	Ginnie Mae	2019-090	JA	July 30, 2019	38381XEF1	3.00	FIX	July 2049	SCH/AD	50,000,000	0.40050254	20,025,127	100.000000000000	II
2	Ginnie Mae	2020-021	PA(3)(4)	February 28, 2020	38382DLV9	1.50	FIX	February 2050	PAC	166,567,000	0.88742645	120,582,559	81.5761423331	II
4	Ginnie Mae	2019-049	CA(3)	April 30, 2019	38381TWE1	3.00	FIX	April 2049	PAC/AD	55,000,000	0.36586982	20,122,840	100.000000000000	II
4	Ginnie Mae	2019-070	AQ(3)	June 28, 2019	38381VX88	3.00	FIX	June 2049	PAC/AD	46,728,000	0.54949560	25,276,797	98.4420475946	II
4	Ginnie Mae	2019-085	MA(3)	July 30, 2019	38381XJZ0	3.00	FIX	July 2049	PT	10,000,000	0.50991910	5,099,191	100.000000000000	II
7	Ginnie Mae	2020-007	CF	January 30, 2020	38382DAF6	(5)	FUT/DLY	January 2050	SUP	10,490,153	1.00000000	10,490,153	100.000000000000	II
7	Ginnie Mae	2020-007	CS	January 30, 2020	38382DAJ8	(5)	INV/DLY	January 2050	SUP	7,343,108	1.00000000	7,343,108	100.000000000000	II
7	Ginnie Mae	2020-007	TC	January 30, 2020	38382DAW9	(5)	INV/DLY	January 2050	SUP	3,147,045	1.00000000	3,147,045	100.000000000000	II

- (1) As defined under “Class Types” in Appendix I to the Base Offering Circular.
- (2) Underlying Certificate Factors are as of July 2020.
- (3) More than 10% of the Mortgage Loans underlying this Underlying Certificate may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.
- (4) MX Class.
- (5) The Interest Rate will be calculated as described under “Terms Sheet — Interest Rates” in the related Underlying Certificate Disclosure Document.



\$794,896,164

**Government National
Mortgage Association**

GINNIE MAE[®]

**Guaranteed REMIC
Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2020-102**

OFFERING CIRCULAR SUPPLEMENT
July 24, 2020

**CREDIT SUISSE
GREAT PACIFIC SECURITIES**