

**\$677,181,419**  
**Government National Mortgage Association**

**GINNIE MAE®**

**Guaranteed REMIC Pass-Through Securities  
and MX Securities  
Ginnie Mae REMIC Trust 2021-159**

**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-10 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 September 30, 2021.

You should read the Base Offering Circular as well as this Supplement. The securities are exempt from registration under the Securities Act of 1933 and are “exempt securities” under the Securities Exchange Act of 1934.

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
<b>Security Group 1</b>						
JG(1)	\$ 38,184,000	2.50%	PAC/AD	FIX	38382XG41	June 2051
JW	714,335	2.50	PAC/AD	FIX	38382XG58	September 2051
ZJ	11,000,000	2.50	SUP	FIX/Z	38382XG66	September 2051
<b>Security Group 2</b>						
IP	27,081,161	3.00	NTL(PT)	FIX/IO	38382XG74	September 2051
PE(1)	65,613,705	2.00	PAC/AD	FIX	38382XG82	November 2050
PW(1)	4,266,472	2.00	PAC/AD	FIX	38382XG90	September 2051
ZP	11,363,306	2.00	SUP	FIX/Z	38382XH24	September 2051
<b>Security Group 3</b>						
QJ(1)	132,259,000	3.00	PAC/AD	FIX	38382XH32	September 2051
ZQ	33,065,242	3.00	SUP	FIX/Z	38382XH40	September 2051
<b>Security Group 4</b>						
IM	34,505,500	2.50	NTL(PAC/AD)	FIX/IO	38382XH57	September 2051
MB	20,000,000	1.25	PAC/AD	FIX	38382XH65	September 2051
MC	32,000,000	1.50	PAC/AD	FIX	38382XH73	September 2051
MT	55,000	1.25	PAC/AD	FIX	38382XH81	September 2051
MU	168,000	1.50	PAC/AD	FIX	38382XH99	September 2051
XC(1)	29,027,000	1.50	PAC/AD	FIX	38382XJ22	September 2051
ZM	18,435,913	2.50	SUP	FIX/Z	38382XJ30	September 2051
<b>Security Group 5</b>						
AJ	14,900,000	1.00	PAC/AD	FIX	38382XJ48	August 2051
AL	118,000	1.00	PAC/AD	FIX	38382XJ55	September 2051
AP(1)	113,570,000	1.25	PAC/AD	FIX	38382XJ63	September 2051
AZ	1,000	1.25	PAC/AD	FIX/Z	38382XJ71	September 2051
IA	76,261,750	3.00	NTL(PAC/AD)	FIX/IO	38382XJ89	September 2051
ZA	27,651,000	3.00	SUP	FIX/Z	38382XJ97	September 2051
<b>Security Group 6</b>						
HB	28,726,000	1.25	PAC	FIX	38382XK20	July 2051
HI	2,393,833	3.00	NTL(PAC)	FIX/IO	38382XK38	July 2051
HJ	2,000,000	1.50	SUP	FIX	38382XK46	September 2051
HK	1,901,835	1.50	SUP	FIX	38382XK53	September 2051
HQ	4,466,586	1.50	SCH	FIX	38382XK61	September 2051
HW(1)	565,000	1.50	PAC	FIX	38382XK79	September 2051
IC(1)	12,434,903	3.00	NTL(PT)	FIX/IO	38382XK87	September 2051
IN(1)	6,394,807	3.00	NTL(PT)	FIX/IO	38382XK95	September 2051
<b>Security Group 7</b>						
IT	17,149,833	3.00	NTL(PT)	FIX/IO	38382XL29	September 2051
IU(1)	21,721,105	3.00	NTL(PT)	FIX/IO	38382XL37	September 2051
TA	20,000,000	1.00	PAC	FIX	38382XL45	May 2051
TI(1)	3,333,333	3.00	NTL(PAC)	FIX/IO	38382XL52	May 2051
TJ	39,235,518	1.25	PAC	FIX	38382XL60	September 2051
TW(1)	568,926	1.50	PAC	FIX	38382XL78	September 2051
TX(1)	3,269,626	3.00	NTL(PAC)	FIX/IO	38382XL86	September 2051
TY	750,000	1.25	PT	FIX	38382XL94	September 2051
UA	9,303,908	1.50	SCH	FIX	38382XM28	September 2051
UB	2,000,000	1.25	SUP	FIX	38382XM36	September 2051
UC	2,500,000	1.50	SUP	FIX	38382XM44	September 2051
UD	2,000,000	1.25	SUP	FIX	38382XM51	September 2051
UE	1,258,527	1.50	SUP	FIX	38382XM69	September 2051
UI	333,333	3.00	NTL(SUP)	FIX/IO	38382XM77	September 2051
<b>Security Group 8</b>						
HX(1)	6,913,146	1.50	SC/PT	FIX	38382XM85	August 2051
<b>Security Group 9</b>						
FA	2,600,000	(5)	PT	FLT	38382XM93	September 2051
SA	2,600,000	(5)	NTL(PT)	INV/IO	38382XN27	September 2051
<b>Residual</b>						
RR	0	0.00	NPR	NPR	38382XN35	September 2051

(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.



**Tribal Capital Markets**

**The date of this Offering Circular Supplement is September 24, 2021.**

## 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 8 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:** Truist Securities, Inc.

**Co-Sponsor:** Tribal Capital Markets, LLC

**Trustee:** U.S. Bank National Association

**Tax Administrator:** The Trustee

**Closing Date:** September 30, 2021

**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 October 2021.

### Trust Assets:

<u>Trust Asset Group or Subgroup<sup>(2)</sup></u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	2.50%	30
2	Ginnie Mae II	3.00%	30
3	Ginnie Mae II	3.00%	30
4	Ginnie Mae II	2.50%	30
5	Ginnie Mae II	3.00%	30
6A	Ginnie Mae II	3.00%	30
6B	Ginnie Mae II	3.00%	30
7A	Ginnie Mae II	3.00%	30
7B	Ginnie Mae II	3.00%	30
8	Underlying Certificates	<sup>(1)</sup>	<sup>(1)</sup>
9	Ginnie Mae II	3.00%	30

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

<sup>(2)</sup> The Group 6 and 7 Trust Assets consist of the enumerated subgroups (each, a “Subgroup”).

**Security Groups:** This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Except in the case of a certain MX Class in Groups 6, 7 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 1 through 7 and 9 Trust Assets<sup>(1)</sup>:**

<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<sup>(2)</sup></u>
<b>Group 1 Trust Assets</b>			
\$49,898,335 <sup>(3)</sup>	359	1	2.864%
<b>Group 2 Trust Assets</b>			
\$81,243,483	356	3	3.417%
<b>Group 3 Trust Assets</b>			
\$165,324,242 <sup>(4)</sup>	317	41	3.485%
<b>Group 4 Trust Assets</b>			
\$99,685,913 <sup>(3)</sup>	359	1	2.888%
<b>Group 5 Trust Assets</b>			
\$ 78,120,000	342	15	3.444%
78,120,000	341	16	3.450%
\$156,240,000			
<b>Subgroup 6A Trust Assets</b>			
\$12,789,615	357	3	3.381%
<b>Subgroup 6B Trust Assets</b>			
\$24,869,806	357	3	3.381%
<b>Subgroup 7A Trust Assets</b>			
\$43,359,986	358	2	3.432%
<b>Subgroup 7B Trust Assets</b>			
\$34,256,893	359	1	3.422%
<b>Group 9 Trust Assets</b>			
\$2,600,000	359	1	3.475%

<sup>(1)</sup> As of September 1, 2021.

<sup>(2)</sup> The Mortgage Loans underlying the Group 1 through 7 and 9 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

<sup>(3)</sup> More than 10% of the Mortgage Loans underlying the Group 1 and 4 Trust Assets may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.

<sup>(4)</sup> The Mortgage Loans underlying the Group 3 Trust Assets may be re-performing Mortgage Loans that were previously repurchased from one or more pools of Mortgage Loans underlying one or more Ginnie Mae MBS Certificates.

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 1 through 7 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 8 Trust Assets:** See Exhibit A to this Supplement for certain information regarding the characteristics of the Underlying Certificates.

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

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

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

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

The Floating Rate and Inverse Floating Rate Classes will bear interest at per annum rates based on a 30-day compounded average of the Secured Overnight Financing Rate (“SOFR”) (hereinafter referred to as “Compounded SOFR”) 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>Compounded SOFR for Minimum Interest Rate</u>
<b>Security Group 9</b>						
FA . . . . .	Compounded SOFR + 0.50%	0.55%	0.50%	3.00%	0	0.00%
SA . . . . .	2.50% – Compounded SOFR	2.45%	0.00%	2.50%	0	2.50%

- (1) Compounded SOFR 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 ZJ Accrual Amount will be allocated in the following order of priority:

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

## **SECURITY GROUP 2**

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

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

## **SECURITY GROUP 3**

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

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

## **SECURITY GROUP 4**

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

1. To MB, MC, MT, MU and XC, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
  - a. 75.3169230769% in the following order of priority:
    - i. Concurrently, to MC and XC, pro rata, until retired
    - ii. To MU, until retired
  - b. 24.6830769231%, sequentially, to MB and MT, in that order, until retired
2. To ZM, until retired
3. To MB, MC, MT, MU and XC, in the same manner and priority as step 1. above, but without regard to their Aggregate Scheduled Principal Balance, until retired

## **SECURITY GROUP 5**

The Group 5 Principal Distribution Amount, the AZ Accrual Amount and the ZA Accrual Amount will be allocated as follows:

- The AZ Accrual Amount, sequentially, to AP and AZ, in that order, until retired
- The Group 5 Principal Distribution Amount and the ZA Accrual Amount in the following order of priority:
  1. To AJ, AL, AP and AZ, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
    - a. 11.679070527%, sequentially, to AJ and AL, in that order, until retired

- b. 88.320929473%, sequentially, to AP and AZ, in that order, until retired
2. To ZA, until retired
3. To AJ, AL, AP and AZ, in the same manner and priority as step 1. above, but without regard to their Aggregate Scheduled Principal Balance, until retired

#### **SECURITY GROUP 6**

The Group 6 Principal Distribution Amount will be allocated in the following order of priority:

1. Sequentially, to HB and HW, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
2. To HQ, until reduced to its Scheduled Principal Balance for that Distribution Date
3. Concurrently, to HJ and HK, pro rata, until retired
4. To HQ, without regard to its Scheduled Principal Balance, until retired
5. Sequentially, to HB and HW, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

#### **SECURITY GROUP 7**

The Subgroup 7A Principal Distribution Amount and the Subgroup 7B Principal Distribution Amount will be allocated as follows:

- 1.1378047954% of the Subgroup 7A Principal Distribution Amount and 0.7491864484% of the Subgroup 7B Principal Distribution Amount to TY, until retired
- The remainder of the Subgroup 7A Principal Distribution Amount and the remainder of the Subgroup 7B Principal Distribution Amount in the following order of priority:
  1. To TA, TJ and TW, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
    - a. 34.3936413822%, sequentially, to TA and TW, in that order, until retired
    - b. 65.6063586178% to TJ, until retired
  2. To UA, until reduced to its Scheduled Principal Balance for that Distribution Date
  3. Concurrently, to UB, UC, UD and UE, pro rata, until retired
  4. To UA, without regard to its Scheduled Principal Balance, until retired
  5. To TA, TJ and TW, in the same manner and priority as step 1. above, but without regard to their Aggregate Scheduled Principal Balance, until retired

#### **SECURITY GROUP 8**

The Group 8 Principal Distribution Amount will be allocated to HX, until retired

#### **SECURITY GROUP 9**

The Group 9 Principal Distribution Amount will be allocated to FA, 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:

<u>Security Group</u>		<u>Structuring Ranges</u>
<b>PAC Classes</b>		
1	JG and JW (in the aggregate) .....	225% PSA through 325% PSA
2	PE and PW (in the aggregate) .....	150% PSA through 250% PSA
3	QJ .....	150% PSA through 300% PSA
4	MB, MC, MT, MU and XC (in the aggregate) .....	250% PSA through 350% PSA
5	AJ, AL, AP and AZ (in the aggregate) .....	300% PSA through 360% PSA
6	HB and HW (in the aggregate) .....	150% PSA through 300% PSA
7	TA, TJ and TW (in the aggregate) .....	150% PSA through 300% PSA
<b>Scheduled Classes</b>		
6	HQ .....	475% PSA through 775% PSA
7	UA .....	475% PSA through 775% PSA

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

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

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
<b>Security Group 1</b>		
JL .....	\$26,728,800	70% of JG (PAC/AD Class)
<b>Security Group 2</b>		
IP .....	\$27,081,161	33.3333333333% of the Group 2 Trust Assets
PI .....	27,339,043	41.6666666667% of PE (PAC/AD Class)
PX .....	29,116,740	41.6666666667% of PE and PW (in the aggregate) (PAC/AD Classes)
<b>Security Group 3</b>		
QI .....	\$99,194,250	75% of QJ (PAC/AD Class)
<b>Security Group 4</b>		
IM .....	\$34,505,500	42.4683076923% of MB, MC, MT, MU and XC (in the aggregate) (PAC/AD Classes)
XI .....	8,708,100	30% of XC (PAC/AD Class)
<b>Security Group 5</b>		
AI .....	\$28,392,500	25% of AP (PAC/AD Class)
IA .....	76,261,750	59.3065892106% of AJ, AL, AP and AZ (in the aggregate) (PAC/AD Classes)
<b>Security Group 6</b>		
HI .....	\$ 2,393,833	8.3333333333% of HB (PAC Class)
IC .....	12,434,903	50% of the Subgroup 6B Trust Assets
IH .....	18,829,710	50% of the Group 6 Trust Assets



<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
IN .....	\$ 6,394,807	50% of the Subgroup 6A Trust Assets
<b>Security Group 7</b>		
IO .....	\$ 3,333,333	16.666666667% of TA (PAC Class)
	3,269,626	8.333333333% of TJ (PAC Class)
	21,721,105	50.0948170663% of the Subgroup 7A Trust Assets
	<u>\$28,324,064</u>	
IT .....	\$17,149,833	50.062432204% of the Subgroup 7B Trust Assets
IU .....	21,721,105	50.0948170663% of the Subgroup 7A Trust Assets
TI .....	3,333,333	16.666666667% of TA (PAC Class)
TX .....	3,269,626	8.333333333% of TJ (PAC Class)
UI .....	333,333	8.333333333% of UB and UD (in the aggregate) (SUP Classes)
<b>Security Group 9</b>		
SA .....	\$ 2,600,000	100% of FA (PT 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 Compounded SOFR will affect the yields on the floating rate and inverse floating rate securities.*** If Compounded SOFR 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 Compounded SOFR will generally reduce the yield on floating rate securities; higher levels of Compounded SOFR will generally reduce the yield on the inverse floating rate securities. You should bear in mind that the tim-

ing of changes in the level of Compounded SOFR may affect your yield: generally, the earlier a change, the greater the effect on your yield. It is doubtful that Compounded SOFR will remain constant.

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

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

***The rate of payments on the underlying certificates will directly affect the rate of payments on the group 8 securities.*** The underlying certificates will be sensitive in varying degrees to:

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

As described in the related underlying certificate disclosure documents, the underlying certificates are not entitled to distributions of principal until a certain class of the related underlying series has been retired and, accordingly, distributions of principal of the related mortgage loans for extended periods may be applied to the distribution of principal of such class of certificates having priority over these underlying certificates. Accordingly, these underlying certificates may receive no principal distributions for extended periods of time.

In addition, the principal entitlements of the underlying certificates 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 principal balance schedules, whether any related supporting classes remain outstanding or whether the underlying certificates otherwise have performed as originally anticipated. Additional information as to the underlying certificates may be obtained by performing an analysis of current principal factors of the underlying certificates in light of applicable information contained in the related underlying certificate disclosure documents.

***Up to 10% of the mortgage loans underlying the group 2, 3 and 5 through 9 trust assets and up to 100% of the mortgage loans underlying the group 1 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.

***An investment in the floating rate and inverse floating rate securities entails risks not associated with an investment in conventional fixed rate securities or securities linked to established market indices.***

The Federal Reserve Bank of New York began to publish SOFR in April 2018 and compounded averages of SOFR in March 2020. Although the Federal Reserve Bank of New York has also published historical indicative SOFR from August 2014 to March 2018, such pre-publication data necessarily involves assumptions, estimates and approximations. You should not rely on any historical changes or trends in SOFR as an indicator of future changes in SOFR. Daily shifts in SOFR have been, and may in the future be, greater than those in comparable market indices. Because the interest rate applicable to any accrual period for securities with an interest rate based on SOFR will be calculated by reference to the daily rates of SOFR during an approximate 30-day period commencing and ending before the related accrual period as described under “Description of the Securities — Interest Distributions — Floating Rate and Inverse Floating Rate Classes” in this supplement, the return on and value of the floating rate and inverse floating rate securities may fluctuate more than debt securities linked to less volatile indices.

SOFR is a relatively new market index, and the floating rate and inverse floating rate securities will likely have no established trading market when issued, and an established trading market may never develop or, if developed, may not be liquid. Investment in the floating rate and inverse floating rate securities carries additional pricing volatility, illiquidity and market risk, as discussed in more detail under “Description of the Secu-

rities — Interest Rate Indices — Determination of SOFR — General” in the base offering circular.

The interest rates of the floating rate and inverse floating rate securities will be based on Compounded SOFR. Ginnie Mae may, in its sole discretion and without the consent of security holders or any other party, convert the interest rates of the floating rate and inverse floating rate securities from Compounded SOFR to term SOFR. In connection with that conversion, Ginnie Mae may, in its sole discretion and without the consent of any security holders or any other party, change the calculation methodology or spread, add or subtract a rate adjustment and make other conforming changes with respect to the floating rate and inverse floating rate securities, as described under “Description of the Securities — Interest Rate Indices — Replacement Rate Conforming Changes” in the base offering circular. There can be no assurance that the interest rates of the floating rate and inverse floating rate securities will ever be based on term SOFR or, if based on term SOFR in the future, that the resulting interest rates will yield the same or similar economic results over the lives of the affected securities relative to the results that would have occurred had the interest rates remained based on Compounded SOFR or that the market value will not decrease due to the move from Compounded SOFR to term SOFR.

All aspects of the conversion will be at the sole discretion of Ginnie Mae, which could lead to volatility in the interests rates of or adversely affect the return on the floating rate and inverse floating rate securities, the trading market for such securities and the value of such securities. In addition, the development and implementation of term SOFR is dependent upon the Federal Reserve Bank of New York, so operational or system constraints at the Federal Reserve Bank of New York could adversely affect the ability to transition to term SOFR if it is developed and to implement any conforming changes.

You should consult your own financial and legal advisors about the risks associated with an investment in the floating rate and inverse float-

ing rate securities and the suitability of investing in the floating rate and inverse floating rate securities in light of your particular circumstances.

***Interest on the floating rate and inverse floating rate securities will be determined using a replacement rate if SOFR is no longer available, which could adversely affect the value of your investment in the floating rate and inverse floating rate securities.***

Because SOFR is published by the Federal Reserve Bank of New York based on data received from other sources, neither Ginnie Mae nor the trustee has any control over its determination, calculation or publication. The Federal Reserve Bank of New York has noted that it may alter the methods of calculation, publication schedule, rate revision practices or availability of SOFR at any time without notice. There can be no assurance that SOFR will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of investors in the floating rate and inverse floating rate securities.

If SOFR is no longer published or cannot be used, the amount of interest payable on the floating rate and inverse floating rate securities will be determined using a replacement rate, as described under “Description of the Securities — Interest Rate Indices — Determination of SOFR” in the base offering circular. Ginnie Mae will have the sole discretion to make conforming changes in connection with any replacement rate without the consent of security holders or any other party, as described under “Description of the Securities — Interest Rate Indices” in the base offering circular. This could reduce the amount of interest payable on the floating rate and inverse floating rate securities, which could adversely affect the return on, value of, and market for, the floating rate and inverse floating rate securities. Furthermore, there can be no assurance that the characteristics of any replacement rate will be similar to SOFR or that any replacement rate will produce the economic equivalent of SOFR.

***The securities may not be a suitable investment for you.*** The securities, especially the group 8 securities and, in particular, the support,

interest only, accrual and residual classes, are not suitable investments for all investors.

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

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

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

The residual securities may experience significant adverse tax timing consequences. Accordingly, you are urged to consult tax advisors and to

consider the after-tax effect of ownership of a residual security and the suitability of the residual securities to your investment objectives. See “*Certain United States Federal Income Tax Consequences*” in this supplement and in the base offering circular.

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

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

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

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

## **THE TRUST ASSETS**

### **General**

The Sponsor intends to acquire the Trust Assets in privately negotiated transactions on or prior to the Closing Date and to sell them to the Trust according to the terms of a Trust Agreement between the Sponsor and the Trustee. The Sponsor will make certain representations and warranties with respect to the Trust Assets. All Trust Assets, regardless of whether the assets consist of Trust MBS or the Underlying Certificates, will evidence, directly or indirectly, Ginnie Mae Certificates.

### **The Trust MBS (Groups 1 through 7 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 Mort-

gage 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 (Group 8)**

The Group 8 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](http://ginniemae.gov). Investors are cautioned that material changes in facts and circumstances may have occurred since the date of each Underlying Certificate Disclosure Document, including changes in prepayment rates, prevailing interest rates and other economic factors, which may limit the usefulness of, and be directly contrary to the assumptions used in preparing the information included in, the offering document. See “*Underlying Certificates*” in the *Base Offering Circular*.

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

### **The Mortgage Loans**

The Mortgage Loans underlying the Group 1 through 7 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 1 through 7 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 initially on Compounded SOFR with a Corresponding Tenor of 30 days. The Trustee or its agent will determine Compounded SOFR as described under “Description of the Securities — Interest Rate Indices — Determination of SOFR” in the Base Offering Circular.

At any time, Ginnie Mae may, in its sole discretion and without the consent of security holders or any other party, designate Term SOFR and related positive or negative adjustments, spreads or methodology changes as a Replacement Rate for the Floating Rate and Inverse Floating Rate Classes and instruct the Trustee in writing to replace Compounded SOFR with such Replacement Rate for all purposes relating to such Classes in respect of such determination on such date and all determinations on subsequent dates. Ginnie Mae will not do so unless Ginnie Mae and the Trustee receive a Replacement Rate Tax Opinion. In connection with the implementation of Term SOFR as a Replacement Rate for SOFR Classes, Ginnie Mae will have the right to make other Conforming Changes from time to time without the consent of security holders or any other party, as described under “Description of the Securities —

Interest Rate Indices” and “ — Interest Rate Indices — Determination of SOFR — Conversion of Simple SOFR and Compounded SOFR Classes to Term SOFR” in the Base Offering Circular.

If SOFR ceases to be available or is no longer representative, a replacement rate will be selected, as described under “Description of the Securities — Interest Rate Indices — Determination of SOFR” in the Base Offering Circular.

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

#### *Accrual Classes*

Each of Classes AZ, ZA, ZJ, ZM, ZP and ZQ is an Accrual Class. Interest will accrue on the Accrual Classes and be distributed as described under “Terms Sheet — Accrual Classes” in this Supplement.

### **Principal Distributions**

The Principal Distribution Amount for each Group or Subgroup, as applicable, and each Accrual Amount will be distributed to the Holders entitled thereto as described under “Terms Sheet — Allocation of Principal” in this Supplement. Investors can calculate the amount of principal to be distributed with respect to any Distribution Date by using the Class Factors published in the preceding and current months. See “— Class Factors” below.

#### *Categories of Classes*

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

#### *Notional Classes*

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

### **Residual Securities**

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

### **Class Factors**

The Trustee will calculate and make available for each Class of Securities, no later than the day preceding the 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](http://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, 2, 3, 4, 5 and 6, 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 and 6, 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 USBGNMATEam@usbank.com or in writing at its Corporate Trust Office at U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, Massachusetts, 02110, Attention: Ginnie Mae 2021-159. The Trustee may be contacted by telephone at (617) 603-6451 and by fax at (617) 603-6644.

A fee will be payable to the Trustee in connection with each exchange equal to 1/32 of 1% of the outstanding principal balance (or notional balance) of the Securities surrendered for exchange (but not less than \$2,000 or more than \$25,000); provided, however, that no fee will be payable in respect of an interest only security unless all securities involved in the exchange are interest only securities. The fee must be paid concurrently with the exchange.

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

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

## **YIELD, MATURITY AND PREPAYMENT CONSIDERATIONS**

### **General**

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

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

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

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

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

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

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

Investors in the Group 8 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 8 securities" in this Supplement.

### **Accretion Directed Classes**

Classes AJ, AL, AP, AZ, JG, JW, MB, MC, MT, MU, PE, PW, QJ and XC 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 IA and IM is a Notional Class whose Class Notional Balance is determined by reference to the Class Principal Balance of the related Accretion Directed Classes 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 constant prepayment rate significantly higher than 0% PSA, except within their Effective Ranges.

### **Securities that Receive Principal on the Basis of Schedules**

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

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

<u>Security Group</u>	<u>Initial Effective Ranges</u>
<b>PAC Classes</b>	
1 JG and JW (in the aggregate) . . . . .	225% PSA through 325% PSA
2 PE and PW (in the aggregate) . . . . .	150% PSA through 250% PSA
3 QJ . . . . .	150% PSA through 300% PSA
4 MB, MC, MT, MU and XC (in the aggregate) . . . . .	250% PSA through 350% PSA
5 AJ, AL, AP and AZ (in the aggregate) . . . . .	300% PSA through 360% PSA
6 HB and HW (in the aggregate) . . . . .	150% PSA through 300% PSA
7 TA, TJ and TW (in the aggregate) . . . . .	150% PSA through 300% PSA
<b>Scheduled Classes</b>	
6 HQ . . . . .	475% PSA through 775% PSA
7 UA . . . . .	475% PSA through 775% PSA

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

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

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

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

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

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

### **Assumability**

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

### **Final Distribution Date**

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

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

### **Modeling Assumptions**

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

1. The Mortgage Loans underlying the Group 1 through 7 and 9 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1 through 7 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 1 through 7 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 October 2021.

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

5. The Closing Date for the Securities is September 30, 2021.

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														
	Classes J, JA, JB, JC, JD, JE, JG and JI					Class JW					Class ZJ				
	0%	225%	275%	325%	600%	0%	225%	275%	325%	600%	0%	225%	275%	325%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	97	92	92	92	92	100	100	100	100	100	103	103	99	96	77
September 2023	94	78	78	78	78	100	100	100	100	100	105	105	94	83	24
September 2024	91	60	60	60	53	100	100	100	100	100	108	108	88	68	0
September 2025	87	45	45	45	33	100	100	100	100	100	111	111	85	61	0
September 2026	84	32	32	32	20	100	100	100	100	100	113	113	84	58	0
September 2027	80	21	21	21	11	100	100	100	100	100	116	116	86	59	0
September 2028	76	11	11	11	6	100	100	100	100	100	119	116	86	61	0
September 2029	72	4	4	4	3	100	100	100	100	100	122	115	86	62	0
September 2030	68	0	0	0	1	100	17	17	17	100	125	113	85	64	0
September 2031	64	0	0	0	0	100	0	0	0	100	128	95	70	50	0
September 2032	60	0	0	0	0	100	0	0	0	65	132	79	56	39	0
September 2033	55	0	0	0	0	100	0	0	0	40	135	66	45	30	0
September 2034	51	0	0	0	0	100	0	0	0	24	138	54	36	23	0
September 2035	46	0	0	0	0	100	0	0	0	15	142	45	29	18	0
September 2036	41	0	0	0	0	100	0	0	0	9	145	37	23	14	0
September 2037	35	0	0	0	0	100	0	0	0	5	149	30	18	10	0
September 2038	30	0	0	0	0	100	0	0	0	3	153	24	14	8	0
September 2039	24	0	0	0	0	100	0	0	0	2	157	20	11	6	0
September 2040	18	0	0	0	0	100	0	0	0	1	161	16	8	4	0
September 2041	12	0	0	0	0	100	0	0	0	1	165	13	7	3	0
September 2042	6	0	0	0	0	100	0	0	0	0	169	10	5	2	0
September 2043	0	0	0	0	0	68	0	0	0	0	173	8	4	2	0
September 2044	0	0	0	0	0	0	0	0	0	0	158	6	3	1	0
September 2045	0	0	0	0	0	0	0	0	0	0	138	4	2	1	0
September 2046	0	0	0	0	0	0	0	0	0	0	118	3	1	1	0
September 2047	0	0	0	0	0	0	0	0	0	0	96	2	1	0	0
September 2048	0	0	0	0	0	0	0	0	0	0	73	1	1	0	0
September 2049	0	0	0	0	0	0	0	0	0	0	50	1	0	0	0
September 2050	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	12.4	3.9	3.9	3.9	3.5	22.1	8.9	8.9	8.9	12.2	26.3	13.9	11.6	8.7	1.5

Distribution Date	Security Group 2 PSA Prepayment Assumption Rates														
	Class IP					Classes P, PA, PB, PC, PD, PE and PI					Classes PG, PH, PJ, PK, PL, PM and PX				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	95	94	93	91	98	94	94	94	94	98	94	94	94	94
September 2023	97	87	84	82	73	95	83	83	83	83	95	84	84	84	84
September 2024	95	78	73	68	55	93	71	71	71	61	93	73	73	73	64
September 2025	93	69	62	56	41	90	60	60	60	44	91	63	63	63	47
September 2026	91	61	54	47	30	87	50	50	50	31	88	53	53	53	35
September 2027	89	54	46	39	22	84	41	41	41	21	85	45	45	45	26
September 2028	87	48	39	32	16	81	33	33	33	14	82	37	37	37	19
September 2029	85	42	34	26	12	78	26	26	26	9	80	31	31	31	14
September 2030	83	37	29	22	9	75	20	20	20	5	76	25	25	25	10
September 2031	80	33	24	18	7	72	16	16	16	2	73	21	21	21	8
September 2032	78	29	21	15	5	68	12	12	12	0	70	17	17	17	6
September 2033	75	25	17	12	4	64	8	8	8	0	66	14	14	14	4
September 2034	72	22	15	10	3	60	6	6	6	0	63	11	11	11	3
September 2035	69	19	12	8	2	56	3	3	3	0	59	9	9	9	2
September 2036	66	17	10	6	1	52	1	1	1	0	55	7	7	7	2
September 2037	63	14	9	5	1	48	0	0	0	0	51	6	6	6	1
September 2038	60	12	7	4	1	43	0	0	0	0	47	5	5	5	1
September 2039	56	10	6	3	0	38	0	0	0	0	42	4	4	4	1
September 2040	53	9	5	3	0	33	0	0	0	0	37	3	3	3	0
September 2041	49	7	4	2	0	28	0	0	0	0	33	2	2	2	0
September 2042	45	6	3	2	0	23	0	0	0	0	27	2	2	2	0
September 2043	41	5	2	1	0	17	0	0	0	0	22	1	1	1	0
September 2044	36	4	2	1	0	11	0	0	0	0	17	1	1	1	0
September 2045	32	3	1	1	0	5	0	0	0	0	11	1	1	1	0
September 2046	27	2	1	0	0	0	0	0	0	0	5	1	1	1	0
September 2047	22	2	1	0	0	0	0	0	0	0	0	0	0	0	0
September 2048	17	1	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2049	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2050	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.3	8.5	7.1	6.1	4.2	14.5	5.8	5.8	5.8	4.1	15.2	6.6	6.6	6.6	4.7

**Security Group 2  
PSA Prepayment Assumption Rates**

Distribution Date	Class PW					Class ZP				
	0%	150%	200%	250%	400%	0%	150%	200%	250%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
September 2022	100	100	100	100	100	102	102	95	89	68
September 2023	100	100	100	100	100	104	104	84	64	5
September 2024	100	100	100	100	100	106	106	71	36	0
September 2025	100	100	100	100	100	108	108	61	18	0
September 2026	100	100	100	100	100	111	111	56	7	0
September 2027	100	100	100	100	100	113	113	53	1	0
September 2028	100	100	100	100	100	115	115	53	0	0
September 2029	100	100	100	100	100	117	115	52	0	0
September 2030	100	100	100	100	100	120	112	49	0	0
September 2031	100	100	100	100	100	122	108	46	0	0
September 2032	100	100	100	100	91	125	102	43	0	0
September 2033	100	100	100	100	67	127	95	39	0	0
September 2034	100	100	100	100	49	130	88	36	0	0
September 2035	100	100	100	100	35	132	80	32	0	0
September 2036	100	100	100	100	25	135	73	28	0	0
September 2037	100	97	97	97	18	138	65	25	0	0
September 2038	100	78	78	78	13	140	58	22	0	0
September 2039	100	62	62	62	9	143	51	19	0	0
September 2040	100	49	49	49	7	146	44	16	0	0
September 2041	100	38	38	38	5	149	38	13	0	0
September 2042	100	30	30	30	3	152	32	11	0	0
September 2043	100	23	23	23	2	155	27	9	0	0
September 2044	100	17	17	17	1	158	22	7	0	0
September 2045	100	12	12	12	1	162	18	6	0	0
September 2046	79	9	9	9	1	165	14	4	0	0
September 2047	6	6	6	6	0	157	10	3	0	0
September 2048	4	4	4	4	0	120	7	2	0	0
September 2049	2	2	2	2	0	82	4	1	0	0
September 2050	1	1	1	1	0	42	2	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	25.4	19.8	19.8	19.8	13.8	27.9	17.6	9.9	2.7	1.3

**Security Group 3  
PSA Prepayment Assumption Rates**

Distribution Date	Classes Q, QA, QB, QC, QD, QE, QG, QH, QI and QJ					Class ZQ				
	0%	150%	261%	300%	600%	0%	150%	261%	300%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
September 2022	97	85	85	85	78	103	103	71	59	0
September 2023	94	72	72	72	49	106	106	51	32	0
September 2024	91	60	60	60	30	109	109	38	16	0
September 2025	88	49	49	49	19	113	113	32	7	0
September 2026	85	39	39	39	12	116	116	30	5	0
September 2027	81	31	31	31	7	120	117	29	6	0
September 2028	78	24	24	24	4	123	115	28	6	0
September 2029	74	19	19	19	3	127	111	26	6	0
September 2030	70	14	14	14	2	131	105	24	6	0
September 2031	66	11	11	11	1	135	98	23	6	0
September 2032	62	8	8	8	1	139	90	21	7	0
September 2033	58	6	6	6	0	143	82	19	7	0
September 2034	53	4	4	4	0	148	74	17	7	0
September 2035	49	3	3	3	0	152	67	16	7	0
September 2036	44	2	2	2	0	157	60	15	7	0
September 2037	38	1	1	1	0	162	53	14	8	0
September 2038	33	0	0	0	0	166	47	13	8	0
September 2039	28	0	0	0	0	171	39	10	6	0
September 2040	22	0	0	0	0	177	32	7	4	0
September 2041	16	0	0	0	0	182	25	6	3	0
September 2042	9	0	0	0	0	188	20	4	2	0
September 2043	3	0	0	0	0	193	15	3	2	0
September 2044	0	0	0	0	0	182	11	2	1	0
September 2045	0	0	0	0	0	160	7	1	1	0
September 2046	0	0	0	0	0	136	4	1	0	0
September 2047	0	0	0	0	0	111	1	0	0	0
September 2048	0	0	0	0	0	85	0	0	0	0
September 2049	0	0	0	0	0	58	0	0	0	0
September 2050	0	0	0	0	0	30	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	12.9	4.8	4.8	4.8	2.6	26.4	15.5	5.5	2.9	0.3

**Security Group 4  
PSA Prepayment Assumption Rates**

Distribution Date	Class IM					Class MB					Classes MC, X, XA, XB, XC, XD, XE and XI				
	0%	250%	300%	350%	600%	0%	250%	300%	350%	600%	0%	250%	300%	350%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	97	92	92	92	92	97	92	92	92	92	97	92	92	92	92
September 2023	94	78	78	78	78	94	78	78	78	78	94	78	78	78	78
September 2024	91	61	61	61	52	91	60	60	60	52	91	60	60	60	52
September 2025	88	45	45	45	32	88	45	45	45	32	88	45	45	45	32
September 2026	85	33	33	33	20	85	32	32	32	20	85	32	32	32	20
September 2027	82	22	22	22	13	82	22	22	22	12	82	22	22	22	12
September 2028	79	14	14	14	8	79	14	14	14	8	79	14	14	14	8
September 2029	75	7	7	7	5	75	7	7	7	5	75	7	7	7	5
September 2030	71	2	2	2	3	71	2	2	2	3	71	2	2	2	3
September 2031	68	0	0	0	2	67	0	0	0	2	67	0	0	0	2
September 2032	64	0	0	0	1	63	0	0	0	1	63	0	0	0	1
September 2033	59	0	0	0	1	59	0	0	0	0	59	0	0	0	0
September 2034	55	0	0	0	0	55	0	0	0	0	55	0	0	0	0
September 2035	51	0	0	0	0	51	0	0	0	0	51	0	0	0	0
September 2036	46	0	0	0	0	46	0	0	0	0	46	0	0	0	0
September 2037	41	0	0	0	0	41	0	0	0	0	41	0	0	0	0
September 2038	36	0	0	0	0	36	0	0	0	0	36	0	0	0	0
September 2039	31	0	0	0	0	31	0	0	0	0	31	0	0	0	0
September 2040	26	0	0	0	0	26	0	0	0	0	26	0	0	0	0
September 2041	20	0	0	0	0	20	0	0	0	0	20	0	0	0	0
September 2042	15	0	0	0	0	14	0	0	0	0	14	0	0	0	0
September 2043	9	0	0	0	0	8	0	0	0	0	8	0	0	0	0
September 2044	3	0	0	0	0	2	0	0	0	0	2	0	0	0	0
September 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.4	4.1	4.1	4.1	3.6	13.4	4.0	4.0	4.0	3.6	13.4	4.0	4.0	4.0	3.6

**PSA Prepayment Assumption Rates**

Distribution Date	Class MT					Class MU					Class ZM				
	0%	250%	300%	350%	600%	0%	250%	300%	350%	600%	0%	250%	300%	350%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	100	100	100	100	100	100	100	100	100	100	103	103	99	95	74
September 2023	100	100	100	100	100	100	100	100	100	100	105	105	92	79	16
September 2024	100	100	100	100	100	100	100	100	100	100	108	108	84	62	0
September 2025	100	100	100	100	100	100	100	100	100	100	111	111	81	53	0
September 2026	100	100	100	100	100	100	100	100	100	100	113	113	81	51	0
September 2027	100	100	100	100	100	100	100	100	100	100	116	115	81	52	0
September 2028	100	100	100	100	100	100	100	100	100	100	119	114	81	54	0
September 2029	100	100	100	100	100	100	100	100	100	100	122	111	80	55	0
September 2030	100	100	100	100	100	100	100	100	100	100	125	108	79	56	0
September 2031	100	0	0	0	100	100	0	0	0	100	128	97	71	51	0
September 2032	100	0	0	0	100	100	0	0	0	100	132	79	56	39	0
September 2033	100	0	0	0	100	100	0	0	0	100	135	65	44	29	0
September 2034	100	0	0	0	100	100	0	0	0	100	138	53	35	22	0
September 2035	100	0	0	0	95	100	0	0	0	95	142	43	27	17	0
September 2036	100	0	0	0	58	100	0	0	0	58	145	35	21	13	0
September 2037	100	0	0	0	35	100	0	0	0	35	149	28	16	9	0
September 2038	100	0	0	0	21	100	0	0	0	21	153	22	13	7	0
September 2039	100	0	0	0	13	100	0	0	0	13	157	18	10	5	0
September 2040	100	0	0	0	7	100	0	0	0	7	161	14	7	4	0
September 2041	100	0	0	0	4	100	0	0	0	4	165	11	6	3	0
September 2042	100	0	0	0	3	100	0	0	0	3	169	8	4	2	0
September 2043	100	0	0	0	1	100	0	0	0	1	173	6	3	1	0
September 2044	100	0	0	0	1	100	0	0	0	1	178	5	2	1	0
September 2045	0	0	0	0	0	0	0	0	0	0	165	4	2	1	0
September 2046	0	0	0	0	0	0	0	0	0	0	140	3	1	0	0
September 2047	0	0	0	0	0	0	0	0	0	0	114	2	1	0	0
September 2048	0	0	0	0	0	0	0	0	0	0	87	1	0	0	0
September 2049	0	0	0	0	0	0	0	0	0	0	59	1	0	0	0
September 2050	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	23.4	9.6	9.6	9.6	15.9	23.4	9.6	9.6	9.6	15.9	26.9	13.7	11.2	8.1	1.4

**Security Group 5  
PSA Prepayment Assumption Rates**

Distribution Date	Classes A, AB, AC, AD, AE, AG, AH, AI and AP					Class AJ					Class AL				
	0%	300%	330%	360%	700%	0%	300%	330%	360%	700%	0%	300%	330%	360%	700%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	97	81	81	81	81	97	81	81	81	81	100	100	100	100	100
September 2023	95	60	60	60	47	95	60	60	60	46	100	100	100	100	100
September 2024	92	43	43	43	26	92	42	42	42	26	100	100	100	100	100
September 2025	89	29	29	29	15	89	28	28	28	14	100	100	100	100	100
September 2026	86	18	18	18	8	86	17	17	17	8	100	100	100	100	100
September 2027	83	9	9	9	5	82	8	8	8	4	100	100	100	100	100
September 2028	79	2	2	2	3	79	1	1	1	2	100	100	100	100	100
September 2029	76	0	0	0	2	76	0	0	0	1	100	0	0	0	100
September 2030	72	0	0	0	1	72	0	0	0	0	100	0	0	0	100
September 2031	68	0	0	0	0	68	0	0	0	0	100	0	0	0	60
September 2032	64	0	0	0	0	64	0	0	0	0	100	0	0	0	33
September 2033	60	0	0	0	0	60	0	0	0	0	100	0	0	0	19
September 2034	56	0	0	0	0	56	0	0	0	0	100	0	0	0	10
September 2035	51	0	0	0	0	51	0	0	0	0	100	0	0	0	6
September 2036	47	0	0	0	0	46	0	0	0	0	100	0	0	0	3
September 2037	42	0	0	0	0	41	0	0	0	0	100	0	0	0	2
September 2038	37	0	0	0	0	36	0	0	0	0	100	0	0	0	1
September 2039	32	0	0	0	0	31	0	0	0	0	100	0	0	0	0
September 2040	26	0	0	0	0	25	0	0	0	0	100	0	0	0	0
September 2041	20	0	0	0	0	20	0	0	0	0	100	0	0	0	0
September 2042	14	0	0	0	0	14	0	0	0	0	100	0	0	0	0
September 2043	8	0	0	0	0	7	0	0	0	0	100	0	0	0	0
September 2044	1	0	0	0	0	1	0	0	0	0	100	0	0	0	0
September 2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	13.5	2.9	2.9	2.9	2.4	13.4	2.9	2.9	2.9	2.3	23.2	7.3	7.3	7.3	10.8

**PSA Prepayment Assumption Rates**

Distribution Date	Class AZ					Class IA					Class ZA				
	0%	300%	330%	360%	700%	0%	300%	330%	360%	700%	0%	300%	330%	360%	700%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	101	101	101	101	101	97	81	81	81	81	103	103	96	88	5
September 2023	103	103	103	103	103	95	60	60	60	47	106	106	92	78	0
September 2024	104	104	104	104	104	92	43	43	43	26	109	109	92	74	0
September 2025	105	105	105	105	105	89	29	29	29	15	113	113	93	75	0
September 2026	106	106	106	106	106	86	18	18	18	8	116	115	95	77	0
September 2027	108	108	108	108	108	83	9	9	9	5	120	115	96	80	0
September 2028	109	109	109	109	109	79	2	2	2	3	123	115	97	82	0
September 2029	111	0	0	0	111	76	0	0	0	2	127	99	84	70	0
September 2030	112	0	0	0	112	72	0	0	0	1	131	78	65	53	0
September 2031	113	0	0	0	113	68	0	0	0	0	135	62	50	40	0
September 2032	115	0	0	0	115	64	0	0	0	0	139	49	38	30	0
September 2033	116	0	0	0	116	60	0	0	0	0	143	38	30	23	0
September 2034	118	0	0	0	118	56	0	0	0	0	148	30	23	17	0
September 2035	119	0	0	0	119	51	0	0	0	0	152	23	17	13	0
September 2036	121	0	0	0	121	47	0	0	0	0	157	18	13	9	0
September 2037	122	0	0	0	122	42	0	0	0	0	162	14	10	7	0
September 2038	124	0	0	0	124	37	0	0	0	0	166	11	7	5	0
September 2039	125	0	0	0	125	32	0	0	0	0	171	8	5	4	0
September 2040	127	0	0	0	127	26	0	0	0	0	177	6	4	3	0
September 2041	128	0	0	0	124	20	0	0	0	0	182	5	3	2	0
September 2042	130	0	0	0	64	14	0	0	0	0	188	3	2	1	0
September 2043	132	0	0	0	33	8	0	0	0	0	193	2	1	1	0
September 2044	133	0	0	0	16	1	0	0	0	0	199	2	1	1	0
September 2045	0	0	0	0	8	0	0	0	0	0	180	1	1	0	0
September 2046	0	0	0	0	4	0	0	0	0	0	154	1	0	0	0
September 2047	0	0	0	0	2	0	0	0	0	0	126	0	0	0	0
September 2048	0	0	0	0	1	0	0	0	0	0	96	0	0	0	0
September 2049	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0
September 2050	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	23.2	7.4	7.4	7.4	21.4	13.5	2.9	2.9	2.9	2.4	26.8	11.4	10.3	8.6	0.6

**Security Group 6  
PSA Prepayment Assumption Rates**

Distribution Date	Classes HB and HI					Classes HJ and HK					Class HQ					Class HW				
	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	94	94	94	94	100	100	100	100	95	100	100	84	76	49	100	100	100	100	100
September 2023	96	83	83	83	83	100	100	100	100	30	100	100	52	29	0	100	100	100	100	100
September 2024	93	71	71	71	59	100	100	100	76	0	100	100	18	0	0	100	100	100	100	100
September 2025	91	59	59	59	40	100	100	92	37	0	100	100	0	0	0	100	100	100	100	100
September 2026	88	49	49	49	27	100	100	74	14	0	100	100	0	0	0	100	100	100	100	100
September 2027	86	40	40	40	18	100	100	64	3	0	100	100	0	0	0	100	100	100	100	100
September 2028	83	32	32	32	11	100	100	59	0	0	100	100	0	0	0	100	100	100	100	100
September 2029	80	25	25	25	7	100	100	56	0	0	100	97	0	0	0	100	100	100	100	100
September 2030	77	19	19	19	4	100	100	52	0	0	100	90	0	0	0	100	100	100	100	100
September 2031	74	15	15	15	2	100	100	47	0	0	100	81	0	0	0	100	100	100	100	100
September 2032	71	11	11	11	1	100	100	42	0	0	100	69	0	0	0	100	100	100	100	100
September 2033	67	9	9	9	0	100	100	37	0	0	100	57	0	0	0	100	100	100	100	95
September 2034	63	6	6	6	0	100	100	33	0	0	100	45	0	0	0	100	100	100	100	64
September 2035	60	5	5	5	0	100	100	28	0	0	100	32	0	0	0	100	100	100	100	43
September 2036	56	3	3	3	0	100	100	24	0	0	100	19	0	0	0	100	100	100	100	28
September 2037	52	2	2	2	0	100	100	21	0	0	100	7	0	0	0	100	100	100	100	19
September 2038	47	1	1	1	0	100	95	17	0	0	100	0	0	0	0	100	100	100	100	12
September 2039	43	0	0	0	0	100	83	14	0	0	100	0	0	0	0	100	100	100	100	8
September 2040	38	0	0	0	0	100	72	12	0	0	100	0	0	0	0	100	90	90	90	5
September 2041	33	0	0	0	0	100	61	10	0	0	100	0	0	0	0	100	68	68	68	3
September 2042	28	0	0	0	0	100	52	8	0	0	100	0	0	0	0	100	51	51	51	2
September 2043	22	0	0	0	0	100	43	6	0	0	100	0	0	0	0	100	38	38	38	1
September 2044	17	0	0	0	0	100	35	5	0	0	100	0	0	0	0	100	27	27	27	1
September 2045	11	0	0	0	0	100	28	4	0	0	100	0	0	0	0	100	19	19	19	1
September 2046	5	0	0	0	0	100	22	3	0	0	100	0	0	0	0	100	13	13	13	0
September 2047	0	0	0	0	0	100	16	2	0	0	99	0	0	0	0	9	9	9	9	0
September 2048	0	0	0	0	0	100	11	1	0	0	56	0	0	0	0	5	5	5	5	0
September 2049	0	0	0	0	0	100	6	1	0	0	10	0	0	0	0	3	3	3	3	0
September 2050	0	0	0	0	0	57	3	0	0	0	0	0	0	0	0	1	1	1	1	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average																				
Life (years)	15.3	5.8	5.8	5.8	4.0	29.1	21.8	10.6	3.8	1.8	27.1	12.5	2.0	1.5	0.9	26.0	21.8	21.8	21.8	14.3

**PSA Prepayment Assumption Rates**

Distribution Date	Class IC				Class IH					Class IN					
	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	95	93	92	89	98	95	93	92	89	98	95	93	92	89
September 2023	97	87	82	79	68	97	87	82	79	68	97	87	82	79	68
September 2024	95	78	68	63	47	95	78	68	63	47	95	78	68	63	47
September 2025	93	69	56	51	32	93	69	56	51	32	93	69	56	51	32
September 2026	91	61	47	41	22	91	61	47	41	22	91	61	47	41	22
September 2027	89	54	39	32	15	89	54	39	32	15	89	54	39	32	15
September 2028	87	48	32	26	10	87	48	32	26	10	87	48	32	26	10
September 2029	85	42	26	21	7	85	42	26	21	7	85	42	26	21	7
September 2030	83	37	22	16	5	83	37	22	16	5	83	37	22	16	5
September 2031	80	33	18	13	3	80	33	18	13	3	80	33	18	13	3
September 2032	78	29	15	10	2	78	29	15	10	2	78	29	15	10	2
September 2033	75	25	12	8	1	75	25	12	8	1	75	25	12	8	1
September 2034	72	22	10	6	1	72	22	10	6	1	72	22	10	6	1
September 2035	69	19	8	5	1	69	19	8	5	1	69	19	8	5	1
September 2036	66	17	6	4	0	66	17	6	4	0	66	17	6	4	0
September 2037	63	14	5	3	0	63	14	5	3	0	63	14	5	3	0
September 2038	60	12	4	2	0	60	12	4	2	0	60	12	4	2	0
September 2039	56	10	3	2	0	56	10	3	2	0	56	10	3	2	0
September 2040	53	9	3	1	0	53	9	3	1	0	53	9	3	1	0
September 2041	49	7	2	1	0	49	7	2	1	0	49	7	2	1	0
September 2042	45	6	2	1	0	45	6	2	1	0	45	6	2	1	0
September 2043	41	5	1	1	0	41	5	1	1	0	41	5	1	1	0
September 2044	36	4	1	0	0	36	4	1	0	0	36	4	1	0	0
September 2045	32	3	1	0	0	32	3	1	0	0	32	3	1	0	0
September 2046	27	2	0	0	0	27	2	0	0	0	27	2	0	0	0
September 2047	22	2	0	0	0	22	2	0	0	0	22	2	0	0	0
September 2048	17	1	0	0	0	17	1	0	0	0	17	1	0	0	0
September 2049	12	1	0	0	0	12	1	0	0	0	12	1	0	0	0
September 2050	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	18.3	8.5	6.1	5.3	3.5	18.3	8.5	6.1	5.3	3.5	18.3	8.5	6.1	5.3	3.5

**Security Group 7  
PSA Prepayment Assumption Rates**

Distribution Date	Class IO					Class IT					Class IU				
	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	95	94	93	91	98	96	94	94	91	98	96	94	93	90
September 2023	96	87	83	81	73	97	88	83	81	71	97	88	82	80	70
September 2024	95	77	70	66	51	95	79	70	65	49	95	78	69	64	48
September 2025	93	68	58	54	35	93	70	58	52	34	93	70	57	52	33
September 2026	91	59	48	43	24	91	62	48	42	23	91	62	47	41	22
September 2027	88	52	40	35	16	89	55	40	33	16	89	55	39	33	15
September 2028	86	45	33	28	11	87	49	33	27	11	87	48	32	26	10
September 2029	84	39	27	22	7	85	43	27	21	7	85	43	27	21	7
September 2030	81	34	22	17	5	83	38	22	17	5	83	38	22	17	5
September 2031	79	29	18	14	3	80	33	18	13	3	80	33	18	13	3
September 2032	76	25	14	11	2	78	29	15	11	2	78	29	15	10	2
September 2033	73	22	11	8	1	75	26	12	8	2	75	25	12	8	1
September 2034	70	19	9	7	1	72	22	10	7	1	72	22	10	6	1
September 2035	67	16	7	5	1	69	19	8	5	1	69	19	8	5	1
September 2036	64	14	6	4	0	66	17	7	4	0	66	17	6	4	0
September 2037	60	12	5	3	0	63	15	5	3	0	63	14	5	3	0
September 2038	57	10	4	2	0	60	12	4	2	0	60	12	4	2	0
September 2039	53	8	3	2	0	56	11	3	2	0	56	11	3	2	0
September 2040	49	7	2	1	0	53	9	3	1	0	53	9	3	1	0
September 2041	45	6	2	1	0	49	8	2	1	0	49	7	2	1	0
September 2042	41	5	1	1	0	45	6	2	1	0	45	6	2	1	0
September 2043	37	4	1	1	0	41	5	1	1	0	41	5	1	1	0
September 2044	32	3	1	0	0	36	4	1	0	0	36	4	1	0	0
September 2045	27	3	1	0	0	32	3	1	0	0	32	3	1	0	0
September 2046	22	2	0	0	0	27	3	1	0	0	27	2	0	0	0
September 2047	17	1	0	0	0	22	2	0	0	0	22	2	0	0	0
September 2048	13	1	0	0	0	17	1	0	0	0	17	1	0	0	0
September 2049	9	1	0	0	0	12	1	0	0	0	12	1	0	0	0
September 2050	5	0	0	0	0	6	0	0	0	0	6	0	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	17.6	7.9	6.1	5.5	3.7	18.3	8.6	6.2	5.4	3.7	18.3	8.5	6.1	5.4	3.6

**PSA Prepayment Assumption Rates**

Distribution Date	Classes TA and TI					Classes TJ and TX					Class TW				
	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	94	94	94	94	98	94	94	94	94	100	100	100	100	100
September 2023	96	84	84	84	84	96	85	85	85	85	100	100	100	100	100
September 2024	93	72	72	72	62	93	72	72	72	63	100	100	100	100	100
September 2025	91	60	60	60	41	91	61	61	61	43	100	100	100	100	100
September 2026	88	50	50	50	27	89	51	51	51	29	100	100	100	100	100
September 2027	86	40	40	40	18	86	42	42	42	20	100	100	100	100	100
September 2028	83	32	32	32	11	83	34	34	34	14	100	100	100	100	100
September 2029	80	25	25	25	7	80	27	27	27	9	100	100	100	100	100
September 2030	77	19	19	19	4	78	21	21	21	6	100	100	100	100	100
September 2031	74	15	15	15	2	74	17	17	17	4	100	100	100	100	100
September 2032	70	11	11	11	0	71	13	13	13	3	100	100	100	100	100
September 2033	67	8	8	8	0	68	11	11	11	2	100	100	100	100	69
September 2034	63	6	6	6	0	64	8	8	8	1	100	100	100	100	47
September 2035	59	4	4	4	0	60	7	7	7	1	100	100	100	100	31
September 2036	55	2	2	2	0	57	5	5	5	1	100	100	100	100	21
September 2037	51	1	1	1	0	53	4	4	4	0	100	100	100	100	14
September 2038	47	0	0	0	0	48	3	3	3	0	100	100	100	100	9
September 2039	42	0	0	0	0	44	2	2	2	0	100	85	85	85	6
September 2040	37	0	0	0	0	39	2	2	2	0	100	65	65	65	4
September 2041	32	0	0	0	0	34	1	1	1	0	100	49	49	49	3
September 2042	27	0	0	0	0	29	1	1	1	0	100	37	37	37	2
September 2043	22	0	0	0	0	24	1	1	1	0	100	27	27	27	1
September 2044	16	0	0	0	0	18	1	1	1	0	100	20	20	20	1
September 2045	10	0	0	0	0	12	0	0	0	0	100	14	14	14	0
September 2046	4	0	0	0	0	6	0	0	0	0	100	10	10	10	0
September 2047	0	0	0	0	0	0	0	0	0	0	6	6	6	6	0
September 2048	0	0	0	0	0	0	0	0	0	0	4	4	4	4	0
September 2049	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0
September 2050	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.2	5.8	5.8	5.8	4.0	15.5	6.2	6.2	6.2	4.3	25.9	20.7	20.7	20.7	13.6

**Security Group 7  
PSA Prepayment Assumption Rates**

Distribution Date	Class TY					Class UA					Classes UB, UC, UD, UE and UI				
	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%	0%	150%	250%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
September 2022	98	96	94	93	90	100	100	87	80	57	100	100	100	100	96
September 2023	97	88	83	80	70	100	100	57	36	0	100	100	100	100	46
September 2024	95	78	69	65	49	100	100	23	0	0	100	100	100	83	0
September 2025	93	70	57	52	33	100	100	0	0	0	100	100	97	42	0
September 2026	91	62	48	41	23	100	100	0	0	0	100	100	78	17	0
September 2027	89	55	39	33	15	100	100	0	0	0	100	100	66	4	0
September 2028	87	49	33	26	11	100	100	0	0	0	100	100	61	0	0
September 2029	85	43	27	21	7	100	98	0	0	0	100	100	58	0	0
September 2030	83	38	22	17	5	100	91	0	0	0	100	100	54	0	0
September 2031	80	33	18	13	3	100	82	0	0	0	100	100	49	0	0
September 2032	78	29	15	10	2	100	72	0	0	0	100	100	44	0	0
September 2033	75	26	12	8	1	100	60	0	0	0	100	100	39	0	0
September 2034	72	22	10	6	1	100	47	0	0	0	100	100	34	0	0
September 2035	69	19	8	5	1	100	35	0	0	0	100	100	30	0	0
September 2036	66	17	7	4	0	100	23	0	0	0	100	100	25	0	0
September 2037	63	14	5	3	0	100	11	0	0	0	100	100	22	0	0
September 2038	60	12	4	2	0	100	0	0	0	0	100	100	18	0	0
September 2039	56	11	3	2	0	100	0	0	0	0	100	87	15	0	0
September 2040	53	9	3	1	0	100	0	0	0	0	100	75	12	0	0
September 2041	49	8	2	1	0	100	0	0	0	0	100	64	10	0	0
September 2042	45	6	2	1	0	100	0	0	0	0	100	54	8	0	0
September 2043	41	5	1	1	0	100	0	0	0	0	100	45	6	0	0
September 2044	36	4	1	0	0	100	0	0	0	0	100	37	5	0	0
September 2045	32	3	1	0	0	100	0	0	0	0	100	29	4	0	0
September 2046	27	3	0	0	0	100	0	0	0	0	100	23	3	0	0
September 2047	22	2	0	0	0	99	0	0	0	0	100	17	2	0	0
September 2048	17	1	0	0	0	57	0	0	0	0	100	12	1	0	0
September 2049	12	1	0	0	0	12	0	0	0	0	100	7	1	0	0
September 2050	6	0	0	0	0	0	0	0	0	0	59	3	0	0	0
September 2051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.3	8.6	6.2	5.4	3.6	27.2	12.7	2.2	1.7	1.0	29.2	22.0	10.9	4.0	1.9

**Security Group 8  
PSA Prepayment Assumption Rates**

Distribution Date	Class HX				
	0%	100%	250%	350%	500%
Initial Percent	100	100	100	100	100
September 2022	100	100	100	100	100
September 2023	100	100	100	100	100
September 2024	100	100	100	100	100
September 2025	100	100	100	100	100
September 2026	100	100	100	100	100
September 2027	100	100	100	100	100
September 2028	100	100	100	100	98
September 2029	100	100	100	100	82
September 2030	100	100	100	100	71
September 2031	100	100	94	94	57
September 2032	100	100	82	82	42
September 2033	100	100	70	70	29
September 2034	100	100	58	58	19
September 2035	100	100	47	47	13
September 2036	100	100	35	35	9
September 2037	100	100	26	26	6
September 2038	100	92	19	19	4
September 2039	100	62	14	14	2
September 2040	100	44	10	10	2
September 2041	100	22	7	7	1
September 2042	100	5	5	5	1
September 2043	100	4	4	4	0
September 2044	100	2	2	2	0
September 2045	100	2	2	2	0
September 2046	100	1	1	1	0
September 2047	68	1	1	1	0
September 2048	21	0	0	0	0
September 2049	0	0	0	0	0
September 2050	0	0	0	0	0
September 2051	0	0	0	0	0
Weighted Average Life (years)	26.4	18.9	14.3	14.3	10.9



**Security Groups 6, 7 and 8  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Class HL</u>				
	<u>0%</u>	<u>100%</u>	<u>250%</u>	<u>350%</u>	<u>500%</u>
Initial Percent . . . . .	100	100	100	100	100
September 2022 . . . . .	100	100	100	100	100
September 2023 . . . . .	100	100	100	100	100
September 2024 . . . . .	100	100	100	100	100
September 2025 . . . . .	100	100	100	100	100
September 2026 . . . . .	100	100	100	100	100
September 2027 . . . . .	100	100	100	100	100
September 2028 . . . . .	100	100	100	100	98
September 2029 . . . . .	100	100	100	100	84
September 2030 . . . . .	100	100	100	100	75
September 2031 . . . . .	100	100	95	95	63
September 2032 . . . . .	100	100	85	85	51
September 2033 . . . . .	100	100	74	74	36
September 2034 . . . . .	100	100	64	64	24
September 2035 . . . . .	100	100	54	54	16
September 2036 . . . . .	100	100	44	44	11
September 2037 . . . . .	100	100	36	35	7
September 2038 . . . . .	100	93	30	27	5
September 2039 . . . . .	100	67	25	19	3
September 2040 . . . . .	100	49	19	14	2
September 2041 . . . . .	100	27	14	10	1
September 2042 . . . . .	100	11	11	7	1
September 2043 . . . . .	100	8	8	5	1
September 2044 . . . . .	100	5	5	4	0
September 2045 . . . . .	100	4	4	2	0
September 2046 . . . . .	100	3	3	2	0
September 2047 . . . . .	59	2	2	1	0
September 2048 . . . . .	18	1	1	1	0
September 2049 . . . . .	1	1	1	0	0
September 2050 . . . . .	0	0	0	0	0
September 2051 . . . . .	0	0	0	0	0
Weighted Average Life (years) . . . . .	26.3	19.2	15.3	15.0	11.3

**Security Group 9  
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Classes FA and SA</u>				
	<u>0%</u>	<u>250%</u>	<u>490%</u>	<u>750%</u>	<u>1,000%</u>
Initial Percent . . . . .	100	100	100	100	100
September 2022 . . . . .	98	94	91	87	83
September 2023 . . . . .	97	83	72	60	49
September 2024 . . . . .	95	70	50	33	20
September 2025 . . . . .	93	58	35	18	8
September 2026 . . . . .	91	48	24	10	3
September 2027 . . . . .	89	40	16	5	1
September 2028 . . . . .	87	33	11	3	0
September 2029 . . . . .	85	27	8	1	0
September 2030 . . . . .	83	22	5	1	0
September 2031 . . . . .	80	18	4	0	0
September 2032 . . . . .	78	15	2	0	0
September 2033 . . . . .	75	12	2	0	0
September 2034 . . . . .	72	10	1	0	0
September 2035 . . . . .	69	8	1	0	0
September 2036 . . . . .	66	7	1	0	0
September 2037 . . . . .	63	5	0	0	0
September 2038 . . . . .	60	4	0	0	0
September 2039 . . . . .	56	3	0	0	0
September 2040 . . . . .	53	3	0	0	0
September 2041 . . . . .	49	2	0	0	0
September 2042 . . . . .	45	2	0	0	0
September 2043 . . . . .	41	1	0	0	0
September 2044 . . . . .	36	1	0	0	0
September 2045 . . . . .	32	1	0	0	0
September 2046 . . . . .	27	1	0	0	0
September 2047 . . . . .	22	0	0	0	0
September 2048 . . . . .	17	0	0	0	0
September 2049 . . . . .	12	0	0	0	0
September 2050 . . . . .	6	0	0	0	0
September 2051 . . . . .	0	0	0	0	0
Weighted Average Life (years) . . . . .	18.3	6.2	3.7	2.7	2.2

## 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 8 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 Compounded SOFR under a variety of scenarios.

**No representation is made regarding Mortgage Loan prepayment rates, Underlying Certificate payment rates, Compounded SOFR 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.

*Compounded SOFR: Effect on Yields of the Floating Rate and Inverse Floating Rate Classes*

Low levels of Compounded SOFR can reduce the yield of the Floating Rate Class. High levels of Compounded SOFR can reduce the yield of the Inverse Floating Rate Class. In addition, the Floating Rate Class will not necessarily benefit from a higher yield at high levels of Compounded SOFR because the rate on such Class is capped at a maximum rate 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 Class, at various constant levels of Compounded SOFR.

The Mortgage Loans will not prepay at any constant rate until maturity, and it is unlikely that Compounded SOFR 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 the Inverse Floating Rate Class for each Accrual Period following the first Accrual Period will be based on the indicated level of Compounded SOFR 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 JI to Prepayments  
Assumed Price 8.25%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>225%</u>	<u>275%</u>	<u>325%</u>	<u>600%</u>	<u>635%</u>
6.6%	6.6%	6.6%	1.8%	0.0%

**SECURITY GROUP 2**

**Sensitivity of Class IP to Prepayments  
Assumed Price 14.5768%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>331%</u>	<u>400%</u>
10.2%	7.4%	4.6%	0.0%	(4.0)%

**Sensitivity of Class PI to Prepayments  
Assumed Price 13.5%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>351%</u>	<u>400%</u>
6.2%	6.2%	6.2%	0.0%	(3.4)%

**Sensitivity of Class PX to Prepayments  
Assumed Price 15.25%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>200%</u>	<u>250%</u>	<u>358%</u>	<u>400%</u>
5.4%	5.4%	5.4%	0.0%	(2.3)%

**SECURITY GROUP 3**

**Sensitivity of Class QI to Prepayments  
Assumed Price 10.747290625%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>261%</u>	<u>300%</u>	<u>435%</u>	<u>600%</u>
7.9%	7.9%	7.9%	0.1%	(13.0)%

**SECURITY GROUP 4**

**Sensitivity of Class IM to Prepayments  
Assumed Price 8.8125%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>250%</u>	<u>300%</u>	<u>350%</u>	<u>600%</u>	<u>601%</u>
4.8%	4.8%	4.8%	0.1%	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.

**Sensitivity of Class XI to Prepayments  
Assumed Price 8.75%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>250%</u>	<u>300%</u>	<u>350%</u>	<u>599%</u>	<u>600%</u>
4.9%	4.9%	4.9%	0.0%	0.0%

**SECURITY GROUP 5**

**Sensitivity of Class AI to Prepayments  
Assumed Price 9.0%\***

<b>PSA Prepayment Assumption Rates</b>								
<u>150%</u>	<u>280%</u>	<u>300%</u>	<u>330%</u>	<u>360%</u>	<u>466%</u>	<u>500%</u>	<u>541%</u>	<u>700%</u>
15.8%	0.0%	(2.1)%	(2.1)%	(2.1)%	0.0%	1.7%	0.0%	(11.5)%

**Sensitivity of Class IA to Prepayments  
Assumed Price 9.0%\***

<b>PSA Prepayment Assumption Rates</b>								
<u>150%</u>	<u>280%</u>	<u>300%</u>	<u>330%</u>	<u>360%</u>	<u>466%</u>	<u>500%</u>	<u>541%</u>	<u>700%</u>
15.8%	0.0%	(2.1)%	(2.1)%	(2.1)%	0.0%	1.7%	0.0%	(11.5)%

**SECURITY GROUP 6**

**Sensitivity of Class HI to Prepayments  
Assumed Price 11.5%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>500%</u>	<u>513%</u>
10.9%	10.9%	10.9%	0.8%	0.0%

**Sensitivity of Class IC to Prepayments  
Assumed Price 11.5%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>445%</u>	<u>500%</u>
16.4%	11.0%	8.2%	0.0%	(3.1)%

**Sensitivity of Class IH to Prepayments  
Assumed Price 11.5%\***

<b>PSA Prepayment Assumption Rates</b>				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>445%</u>	<u>500%</u>
16.4%	11.0%	8.2%	0.0%	(3.1)%

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

**Sensitivity of Class IN to Prepayments  
Assumed Price 11.5%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>445%</u>	<u>500%</u>
16.4%	11.0%	8.2%	0.0%	(3.1)%

**SECURITY GROUP 7**

**Sensitivity of Class IO to Prepayments  
Assumed Price 13.4113%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>391%</u>	<u>500%</u>
11.3%	6.9%	4.9%	0.0%	(6.1)%

**Sensitivity of Class IT to Prepayments  
Assumed Price 13.5%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>379%</u>	<u>500%</u>
12.3%	7.0%	4.4%	0.1%	(6.7)%

**Sensitivity of Class IU to Prepayments  
Assumed Price 13.4994375%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>372%</u>	<u>500%</u>
12.2%	6.8%	4.0%	0.0%	(7.3)%

**Sensitivity of Class TI to Prepayments  
Assumed Price 12.75%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>454%</u>	<u>500%</u>
7.8%	7.8%	7.8%	0.1%	(2.6)%

**Sensitivity of Class TX to Prepayments  
Assumed Price 13.5%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>460%</u>	<u>500%</u>
7.3%	7.3%	7.3%	0.0%	(2.0)%

**Sensitivity of Class UI to Prepayments  
Assumed Price 6.0%\***

PSA Prepayment Assumption Rates				
<u>150%</u>	<u>250%</u>	<u>300%</u>	<u>478%</u>	<u>500%</u>
53.9%	51.2%	39.3%	0.0%	(6.1)%

\* 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 9

### Sensitivity of Class SA to Prepayments Assumed Price 6.0%\*

<u>Compounded SOFR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>490%</u>	<u>750%</u>	<u>1,000%</u>
0.025% .....	30.5%	18.7%	5.6%	(7.3)%
0.050% .....	30.0%	18.2%	5.1%	(7.9)%
1.275% .....	5.5%	(7.8)%	(22.9)%	(38.2)%
2.500% 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 K&L Gates LLP, the Trust will constitute a Double REMIC Series for United States federal income tax purposes. Separate REMIC elections will be made for the Pooling REMIC and the Issuing REMIC.

#### Regular Securities

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

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

The prepayment assumption that should be used in determining the rates of accrual of OID, if any, on the Regular Securities (as described in “Yield, Maturity and Prepayment Considerations” in this Supplement) is as follows:

<u>Group(s)</u>	<u>PSA</u>
1	275%
2	200%
3	261%
4	300%
5	330%
6, 7 and 8	250%
9	490%

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 Compounded SOFR 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.

**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 (“Similar Law”).

Fiduciaries of any such Plans or governmental or church plans subject to Similar Law 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) September 1, 2021 on the Fixed Rate Classes and (2) September 20, 2021 on the Floating Rate and Inverse Floating Rate Classes. The Sponsor may effect these transactions by sales to or through certain securities dealers. These dealers may receive compensation in the form of discounts, concessions or commissions from the Sponsor and/or commissions from any purchasers for which they act as agents. Some of the Securities may be sold through dealers in relatively small sales. In the usual case, the commission charged on a relatively small sale of securities will be a higher percentage of the sales price than that charged on a large sale of securities.

### **INCREASE IN SIZE**

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

### **LEGAL MATTERS**

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

Schedule I

Available Combinations(1)

Class	REMIC Securities		MX Securities								
	Original Class Principal Balance or Class Notional Balance	Maximum Original Class Principal Balance or Class Notional Balance(2)	Related MX Class	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)			
<b>Security Group 1</b> Combination 1(5) JG	\$38,184,000	\$38,184,000	J	PAC/AD	0.75%	FIX	38382XN43	June 2051			
			JA	PAC/AD	1.00	FIX	38382XN50	June 2051			
			JB	PAC/AD	1.25	FIX	38382XN68	June 2051			
			JC	PAC/AD	1.50	FIX	38382XN76	June 2051			
			JD	PAC/AD	1.75	FIX	38382XN84	June 2051			
			JE	PAC/AD	2.00	FIX	38382XN92	June 2051			
			JI	NTL(PAC/AD)	2.50	FIX/IO	38382XP25	June 2051			
			<b>Security Group 2</b> Combination 2(5) PE	\$65,613,705	\$65,613,705	P	PAC/AD	0.75%	FIX	38382XP33	November 2050
						PA	PAC/AD	1.00	FIX	38382XP41	November 2050
						PB	PAC/AD	1.25	FIX	38382XP58	November 2050
PC	PAC/AD	1.50				FIX	38382XP66	November 2050			
PD	PAC/AD	1.75				FIX	38382XP74	November 2050			
PI	NTL(PAC/AD)	3.00				FIX/IO	38382XP82	November 2050			
Combination 3(5) PE PW	\$65,613,705	4,266,472				PG	PAC/AD	0.75%	FIX	38382XP90	September 2051
						PH	PAC/AD	1.00	FIX	38382XQ24	September 2051
						PJ	PAC/AD	1.25	FIX	38382XQ32	September 2051
						PK	PAC/AD	1.50	FIX	38382XQ40	September 2051
			PL	PAC/AD	1.75	FIX	38382XQ57	September 2051			
			PM	PAC/AD	2.00	FIX	38382XQ65	September 2051			
PX	NTL(PAC/AD)	3.00	FIX/IO	38382XQ73	September 2051						

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)		
<b>Security Group 3</b> Combination 4(5) QJ	\$132,259,000	Q	\$132,259,000	PAC/AD	0.75%	FIX	38382XQ81	September 2051		
		QA	132,259,000	PAC/AD	1.00	FIX	38382XQ99	September 2051		
		QB	132,259,000	PAC/AD	1.25	FIX	38382XR23	September 2051		
		QC	132,259,000	PAC/AD	1.50	FIX	38382XR31	September 2051		
		QD	132,259,000	PAC/AD	1.75	FIX	38382XR49	September 2051		
		QE	132,259,000	PAC/AD	2.00	FIX	38382XR56	September 2051		
		QG	132,259,000	PAC/AD	2.25	FIX	38382XR64	September 2051		
		QH	132,259,000	PAC/AD	2.50	FIX	38382XR72	September 2051		
		QI	99,194,250	NTL(PAC/AD)	3.00	FIX/IO	38382XR80	September 2051		
		<b>Security Group 4</b> Combination 5(5) XC	\$ 29,027,000	X	\$ 29,027,000	PAC/AD	0.75%	FIX	38382XR98	September 2051
				XA	29,027,000	PAC/AD	1.00	FIX	38382XS22	September 2051
XB	29,027,000			PAC/AD	1.25	FIX	38382XS30	September 2051		
XD	21,770,250			PAC/AD	1.75	FIX	38382XS48	September 2051		
XE	17,416,200			PAC/AD	2.00	FIX	38382XS55	September 2051		
XI	8,708,100			NTL(PAC/AD)	2.50	FIX/IO	38382XS63	September 2051		
<b>Security Group 5</b> Combination 6(5) AP	\$113,570,000			A	\$113,570,000	PAC/AD	0.50%	FIX	38382XS71	September 2051
				AB	113,570,000	PAC/AD	0.75	FIX	38382XS89	September 2051
				AC	113,570,000	PAC/AD	1.00	FIX	38382XS97	September 2051
				AD	113,570,000	PAC/AD	1.25	FIX	38382XT21	September 2051
				AE	85,177,500	PAC/AD	1.50	FIX	38382XT39	September 2051
		AG	68,142,000	PAC/AD	1.75	FIX	38382XT47	September 2051		
		AH	56,785,000	PAC/AD	2.00	FIX	38382XT54	September 2051		
		AI	28,392,500	NTL(PAC/AD)	3.00	FIX/IO	38382XT62	September 2051		

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)
<b>Security Group 6</b>								
Combination 7								
IC	\$12,434,903	IH	\$18,829,710	NTL(PT)	3.00%	FIX/IO	38382XT170	September 2051
IN	6,394,807							
<b>Security Group 7</b>								
Combination 8								
IU	\$21,721,105	IO	\$28,324,064	NTL(PT/PAC)	3.00%	FIX/IO	38382XT188	September 2051
TI	3,333,333							
TX	3,269,626							
<b>Security Groups 6, 7 and 8</b>								
Combination 9(6)								
HW	\$ 565,000	HL	\$ 8,047,072	SC/PT/PAC	1.50%	FIX	38382XT196	September 2051
HX	6,913,146							
TW	568,926							

(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 and 6, various subcombinations are permitted. See "Description of the Securities—Modification and Exchange" in the Base Offering Circular for a discussion of subcombinations.

(6) Derived from REMIC classes relating to separate Groups.

**Schedule II**

**SCHEDULED PRINCIPAL BALANCES**

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
Initial Balance .....	\$38,898,335.00	\$69,880,177.00	\$132,259,000.00
October 2021 .....	38,749,901.38	69,647,621.20	130,566,109.09
November 2021 .....	38,582,545.04	69,394,528.04	128,887,180.31
December 2021 .....	38,396,344.16	69,121,012.77	127,222,094.50
January 2022 .....	38,191,398.57	68,827,206.40	125,570,733.44
February 2022 .....	37,967,829.70	68,513,255.69	123,932,979.90
March 2022 .....	37,725,780.53	68,179,323.03	122,308,717.58
April 2022 .....	37,465,415.46	67,825,586.28	120,697,831.12
May 2022 .....	37,186,920.19	67,452,238.68	119,100,206.11
June 2022 .....	36,890,501.53	67,059,488.61	117,515,729.06
July 2022 .....	36,576,387.13	66,647,559.47	115,944,287.40
August 2022 .....	36,244,825.24	66,216,689.46	114,385,769.48
September 2022 .....	35,896,084.40	65,767,131.31	112,840,064.53
October 2022 .....	35,530,453.07	65,299,152.09	111,307,062.72
November 2022 .....	35,148,239.23	64,813,032.92	109,786,655.07
December 2022 .....	34,749,769.98	64,309,068.67	108,278,733.52
January 2023 .....	34,335,391.03	63,787,567.71	106,783,190.84
February 2023 .....	33,905,466.21	63,248,851.53	105,299,920.73
March 2023 .....	33,460,376.93	62,693,254.45	103,828,817.70
April 2023 .....	33,000,521.57	62,121,123.24	102,369,777.14
May 2023 .....	32,526,314.91	61,532,816.75	100,922,695.28
June 2023 .....	32,038,187.42	60,928,705.54	99,487,469.21
July 2023 .....	31,536,584.64	60,309,171.47	98,063,996.84
August 2023 .....	31,021,966.43	59,674,607.28	96,652,176.90
September 2023 .....	30,494,806.23	59,025,416.16	95,251,908.95
October 2023 .....	29,955,590.31	58,362,011.31	93,863,093.38
November 2023 .....	29,404,816.94	57,684,815.47	92,485,631.37
December 2023 .....	28,842,995.64	56,994,260.47	91,119,424.91
January 2024 .....	28,270,646.25	56,309,555.56	89,764,376.78
February 2024 .....	27,688,298.15	55,630,651.49	88,420,390.55
March 2024 .....	27,113,359.96	54,957,499.37	87,087,370.58
April 2024 .....	26,545,734.65	54,290,050.74	85,765,221.99
May 2024 .....	25,985,326.42	53,628,257.51	84,453,850.70
June 2024 .....	25,432,040.70	52,972,072.00	83,153,163.37
July 2024 .....	24,885,784.10	52,321,446.91	81,863,067.42
August 2024 .....	24,346,464.44	51,676,335.32	80,583,471.03
September 2024 .....	23,813,990.70	51,036,690.71	79,314,283.12
October 2024 .....	23,288,273.05	50,402,466.93	78,055,413.35
November 2024 .....	22,769,222.75	49,773,618.19	76,806,772.11
December 2024 .....	22,256,752.24	49,150,099.09	75,568,270.53
January 2025 .....	21,750,775.06	48,531,864.61	74,339,820.45
February 2025 .....	21,251,205.83	47,918,870.06	73,121,334.44
March 2025 .....	20,757,960.30	47,311,071.16	71,912,725.76
April 2025 .....	20,270,955.25	46,708,423.96	70,713,908.39
May 2025 .....	19,790,108.55	46,110,884.88	69,524,797.00

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2025	\$19,315,339.10	\$45,518,410.69	\$ 68,345,306.96
July 2025	18,846,566.86	44,930,958.51	67,175,354.33
August 2025	18,383,712.79	44,348,485.81	66,014,855.84
September 2025	17,926,698.85	43,770,950.43	64,863,728.92
October 2025	17,475,448.01	43,198,310.52	63,721,891.63
November 2025	17,029,884.23	42,630,524.59	62,589,262.75
December 2025	16,589,932.43	42,067,551.49	61,465,761.66
January 2026	16,155,518.49	41,509,350.40	60,351,308.45
February 2026	15,726,569.23	40,955,880.82	59,245,823.83
March 2026	15,303,012.42	40,407,102.62	58,149,229.16
April 2026	14,884,776.73	39,862,975.94	57,061,446.44
May 2026	14,471,791.77	39,323,461.31	55,982,398.30
June 2026	14,063,988.03	38,788,519.52	54,912,008.01
July 2026	13,661,296.88	38,258,111.74	53,850,199.45
August 2026	13,263,650.60	37,732,199.40	52,796,897.13
September 2026	12,870,982.30	37,210,744.28	51,756,736.61
October 2026	12,483,225.97	36,693,708.47	50,735,448.95
November 2026	12,100,316.42	36,181,054.36	49,732,698.70
December 2026	11,722,189.32	35,672,744.66	48,748,156.24
January 2027	11,348,781.15	35,168,742.36	47,781,497.71
February 2027	10,980,029.21	34,669,010.77	46,832,404.89
March 2027	10,615,871.58	34,173,513.51	45,900,565.11
April 2027	10,257,268.02	33,682,214.48	44,985,671.18
May 2027	9,905,435.93	33,195,077.88	44,087,421.25
June 2027	9,560,243.87	32,712,068.20	43,205,518.75
July 2027	9,221,562.87	32,233,150.23	42,339,672.30
August 2027	8,889,266.46	31,758,289.03	41,489,595.58
September 2027	8,563,230.53	31,287,449.98	40,655,007.31
October 2027	8,243,333.38	30,820,598.69	39,835,631.11
November 2027	7,929,455.60	30,357,701.11	39,031,195.43
December 2027	7,621,480.06	29,898,723.43	38,241,433.47
January 2028	7,319,291.88	29,443,632.12	37,466,083.09
February 2028	7,022,778.36	28,992,393.94	36,704,886.77
March 2028	6,731,828.93	28,544,975.91	35,957,591.45
April 2028	6,446,335.15	28,101,345.32	35,223,948.53
May 2028	6,166,190.67	27,661,469.74	34,503,713.75
June 2028	5,891,291.12	27,225,317.00	33,796,647.15
July 2028	5,621,534.15	26,794,549.45	33,102,512.94
August 2028	5,356,819.37	26,370,263.04	32,421,079.49
September 2028	5,097,048.30	25,952,363.27	31,752,119.21
October 2028	4,842,124.34	25,540,757.00	31,095,408.51
November 2028	4,591,952.73	25,135,352.43	30,450,727.73
December 2028	4,346,440.53	24,736,059.04	29,817,861.05
January 2029	4,105,496.56	24,342,787.64	29,196,596.44
February 2029	3,869,031.41	23,955,450.28	28,586,725.58
March 2029	3,636,957.36	23,573,960.30	27,988,043.84
April 2029	3,409,188.38	23,198,232.26	27,400,350.15
May 2029	3,185,640.06	22,828,181.93	26,823,446.99

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2029	\$ 2,966,229.63	\$22,463,726.31	\$ 26,257,140.30
July 2029	2,750,875.91	22,104,783.57	25,701,239.43
August 2029	2,539,499.24	21,751,273.06	25,155,557.09
September 2029	2,332,021.53	21,403,115.27	24,619,909.29
October 2029	2,128,366.13	21,060,231.85	24,094,115.25
November 2029	1,928,457.92	20,722,545.56	23,577,997.40
December 2029	1,732,223.17	20,389,980.25	23,071,381.27
January 2030	1,539,589.59	20,062,460.89	22,574,095.48
February 2030	1,350,486.26	19,739,913.50	22,085,971.66
March 2030	1,164,843.63	19,422,265.19	21,606,844.40
April 2030	982,593.48	19,109,444.07	21,136,551.22
May 2030	803,668.90	18,801,379.32	20,674,932.48
June 2030	628,004.26	18,498,001.13	20,221,831.38
July 2030	455,535.19	18,199,240.66	19,777,093.86
August 2030	286,198.56	17,905,030.10	19,340,568.60
September 2030	119,932.45	17,615,302.58	18,912,106.94
October 2030	0.00	17,329,992.21	18,491,562.83
November 2030	0.00	17,049,034.04	18,078,792.82
December 2030	0.00	16,772,364.04	17,673,655.99
January 2031	0.00	16,499,919.13	17,276,013.89
February 2031	0.00	16,231,637.10	16,885,730.55
March 2031	0.00	15,967,456.65	16,502,672.36
April 2031	0.00	15,707,317.38	16,126,708.11
May 2031	0.00	15,451,159.72	15,757,708.89
June 2031	0.00	15,198,924.98	15,395,548.08
July 2031	0.00	14,950,555.32	15,040,101.29
August 2031	0.00	14,705,993.72	14,691,246.35
September 2031	0.00	14,465,183.99	14,348,863.23
October 2031	0.00	14,228,070.72	14,012,834.04
November 2031	0.00	13,994,599.34	13,683,042.98
December 2031	0.00	13,764,716.04	13,359,376.30
January 2032	0.00	13,538,367.79	13,041,722.27
February 2032	0.00	13,315,502.32	12,729,971.12
March 2032	0.00	13,096,068.13	12,424,015.05
April 2032	0.00	12,880,014.44	12,123,748.18
May 2032	0.00	12,667,291.22	11,829,066.48
June 2032	0.00	12,457,849.14	11,539,867.80
July 2032	0.00	12,251,639.62	11,256,051.77
August 2032	0.00	12,048,614.74	10,977,519.83
September 2032	0.00	11,848,727.28	10,704,175.16
October 2032	0.00	11,651,930.74	10,435,922.67
November 2032	0.00	11,458,179.23	10,172,668.96
December 2032	0.00	11,267,427.57	9,914,322.27
January 2033	0.00	11,079,631.22	9,660,792.51
February 2033	0.00	10,894,746.28	9,411,991.16
March 2033	0.00	10,712,729.48	9,167,831.29
April 2033	0.00	10,533,538.18	8,928,227.53
May 2033	0.00	10,357,130.37	8,693,096.02



<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2033	\$ 0.00	\$10,183,464.63	\$ 8,462,354.39
July 2033	0.00	10,012,500.14	8,235,921.74
August 2033	0.00	9,844,196.68	8,013,718.63
September 2033	0.00	9,678,514.61	7,795,667.02
October 2033	0.00	9,515,414.87	7,581,690.26
November 2033	0.00	9,354,858.95	7,371,713.10
December 2033	0.00	9,196,808.90	7,165,661.59
January 2034	0.00	9,041,227.35	6,963,463.13
February 2034	0.00	8,888,077.42	6,765,046.41
March 2034	0.00	8,737,322.82	6,570,341.41
April 2034	0.00	8,588,927.75	6,379,279.33
May 2034	0.00	8,442,856.94	6,191,792.62
June 2034	0.00	8,299,075.62	6,007,814.96
July 2034	0.00	8,157,549.56	5,827,281.17
August 2034	0.00	8,018,244.99	5,650,127.29
September 2034	0.00	7,881,128.65	5,476,290.47
October 2034	0.00	7,746,167.76	5,305,708.99
November 2034	0.00	7,613,330.01	5,138,322.26
December 2034	0.00	7,482,583.56	4,974,070.75
January 2035	0.00	7,353,897.05	4,812,896.02
February 2035	0.00	7,227,239.55	4,654,740.66
March 2035	0.00	7,102,580.61	4,499,548.32
April 2035	0.00	6,979,890.20	4,347,263.62
May 2035	0.00	6,859,138.73	4,197,832.21
June 2035	0.00	6,740,297.05	4,051,200.70
July 2035	0.00	6,623,336.44	3,907,316.68
August 2035	0.00	6,508,228.58	3,766,128.66
September 2035	0.00	6,394,945.57	3,627,586.09
October 2035	0.00	6,283,459.93	3,491,639.33
November 2035	0.00	6,173,744.56	3,358,239.62
December 2035	0.00	6,065,772.77	3,227,339.11
January 2036	0.00	5,959,518.26	3,098,890.78
February 2036	0.00	5,854,955.11	2,972,848.48
March 2036	0.00	5,752,057.77	2,849,166.87
April 2036	0.00	5,650,801.07	2,727,801.46
May 2036	0.00	5,551,160.23	2,608,708.54
June 2036	0.00	5,453,110.79	2,491,845.20
July 2036	0.00	5,356,628.68	2,377,169.29
August 2036	0.00	5,261,690.18	2,264,639.45
September 2036	0.00	5,168,271.89	2,154,215.05
October 2036	0.00	5,076,350.79	2,045,856.19
November 2036	0.00	4,985,904.17	1,939,523.70
December 2036	0.00	4,896,909.66	1,835,179.13
January 2037	0.00	4,809,345.23	1,732,784.71
February 2037	0.00	4,723,189.16	1,632,303.37
March 2037	0.00	4,638,420.05	1,533,698.69
April 2037	0.00	4,555,016.81	1,436,934.93
May 2037	0.00	4,472,958.67	1,341,976.99

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2037	\$ 0.00	\$ 4,392,225.16	\$ 1,248,790.42
July 2037	0.00	4,312,796.11	1,157,341.39
August 2037	0.00	4,234,651.65	1,067,596.66
September 2037	0.00	4,157,772.19	979,523.64
October 2037	0.00	4,082,138.45	893,090.29
November 2037	0.00	4,007,731.41	808,265.19
December 2037	0.00	3,934,532.35	725,017.46
January 2038	0.00	3,862,522.81	643,316.80
February 2038	0.00	3,791,684.60	563,133.46
March 2038	0.00	3,721,999.82	484,438.23
April 2038	0.00	3,653,450.82	407,202.44
May 2038	0.00	3,586,020.19	331,397.93
June 2038	0.00	3,519,690.82	256,997.07
July 2038	0.00	3,454,445.81	183,972.72
August 2038	0.00	3,390,268.54	112,298.24
September 2038	0.00	3,327,142.62	41,947.48
October 2038	0.00	3,265,051.91	0.00
November 2038	0.00	3,203,980.49	0.00
December 2038	0.00	3,143,912.70	0.00
January 2039	0.00	3,084,833.09	0.00
February 2039	0.00	3,026,726.46	0.00
March 2039	0.00	2,969,577.83	0.00
April 2039	0.00	2,913,372.42	0.00
May 2039	0.00	2,858,095.69	0.00
June 2039	0.00	2,803,733.31	0.00
July 2039	0.00	2,750,271.16	0.00
August 2039	0.00	2,697,695.34	0.00
September 2039	0.00	2,645,992.13	0.00
October 2039	0.00	2,595,148.05	0.00
November 2039	0.00	2,545,149.79	0.00
December 2039	0.00	2,495,984.25	0.00
January 2040	0.00	2,447,638.53	0.00
February 2040	0.00	2,400,099.91	0.00
March 2040	0.00	2,353,355.86	0.00
April 2040	0.00	2,307,394.04	0.00
May 2040	0.00	2,262,202.30	0.00
June 2040	0.00	2,217,768.66	0.00
July 2040	0.00	2,174,081.33	0.00
August 2040	0.00	2,131,128.68	0.00
September 2040	0.00	2,088,899.27	0.00
October 2040	0.00	2,047,381.81	0.00
November 2040	0.00	2,006,565.21	0.00
December 2040	0.00	1,966,438.50	0.00
January 2041	0.00	1,926,990.92	0.00
February 2041	0.00	1,888,211.85	0.00
March 2041	0.00	1,850,090.82	0.00
April 2041	0.00	1,812,617.54	0.00
May 2041	0.00	1,775,781.84	0.00

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2041 . . . . .	\$ 0.00	\$ 1,739,573.73	\$ 0.00
July 2041 . . . . .	0.00	1,703,983.37	0.00
August 2041 . . . . .	0.00	1,669,001.05	0.00
September 2041 . . . . .	0.00	1,634,617.22	0.00
October 2041 . . . . .	0.00	1,600,822.45	0.00
November 2041 . . . . .	0.00	1,567,607.49	0.00
December 2041 . . . . .	0.00	1,534,963.20	0.00
January 2042 . . . . .	0.00	1,502,880.58	0.00
February 2042 . . . . .	0.00	1,471,350.77	0.00
March 2042 . . . . .	0.00	1,440,365.05	0.00
April 2042 . . . . .	0.00	1,409,914.82	0.00
May 2042 . . . . .	0.00	1,379,991.60	0.00
June 2042 . . . . .	0.00	1,350,587.07	0.00
July 2042 . . . . .	0.00	1,321,693.01	0.00
August 2042 . . . . .	0.00	1,293,301.32	0.00
September 2042 . . . . .	0.00	1,265,404.04	0.00
October 2042 . . . . .	0.00	1,237,993.33	0.00
November 2042 . . . . .	0.00	1,211,061.44	0.00
December 2042 . . . . .	0.00	1,184,600.76	0.00
January 2043 . . . . .	0.00	1,158,603.80	0.00
February 2043 . . . . .	0.00	1,133,063.18	0.00
March 2043 . . . . .	0.00	1,107,971.61	0.00
April 2043 . . . . .	0.00	1,083,321.93	0.00
May 2043 . . . . .	0.00	1,059,107.09	0.00
June 2043 . . . . .	0.00	1,035,320.14	0.00
July 2043 . . . . .	0.00	1,011,954.23	0.00
August 2043 . . . . .	0.00	989,002.62	0.00
September 2043 . . . . .	0.00	966,458.68	0.00
October 2043 . . . . .	0.00	944,315.87	0.00
November 2043 . . . . .	0.00	922,567.75	0.00
December 2043 . . . . .	0.00	901,207.98	0.00
January 2044 . . . . .	0.00	880,230.31	0.00
February 2044 . . . . .	0.00	859,628.60	0.00
March 2044 . . . . .	0.00	839,396.79	0.00
April 2044 . . . . .	0.00	819,528.91	0.00
May 2044 . . . . .	0.00	800,019.10	0.00
June 2044 . . . . .	0.00	780,861.56	0.00
July 2044 . . . . .	0.00	762,050.61	0.00
August 2044 . . . . .	0.00	743,580.63	0.00
September 2044 . . . . .	0.00	725,446.10	0.00
October 2044 . . . . .	0.00	707,641.58	0.00
November 2044 . . . . .	0.00	690,161.72	0.00
December 2044 . . . . .	0.00	673,001.23	0.00
January 2045 . . . . .	0.00	656,154.94	0.00
February 2045 . . . . .	0.00	639,617.72	0.00
March 2045 . . . . .	0.00	623,384.53	0.00
April 2045 . . . . .	0.00	607,450.43	0.00
May 2045 . . . . .	0.00	591,810.52	0.00

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2045	\$ 0.00	\$ 576,459.99	\$ 0.00
July 2045	0.00	561,394.12	0.00
August 2045	0.00	546,608.24	0.00
September 2045	0.00	532,097.76	0.00
October 2045	0.00	517,858.16	0.00
November 2045	0.00	503,884.99	0.00
December 2045	0.00	490,173.87	0.00
January 2046	0.00	476,720.49	0.00
February 2046	0.00	463,520.59	0.00
March 2046	0.00	450,570.00	0.00
April 2046	0.00	437,864.59	0.00
May 2046	0.00	425,400.31	0.00
June 2046	0.00	413,173.18	0.00
July 2046	0.00	401,179.25	0.00
August 2046	0.00	389,414.67	0.00
September 2046	0.00	377,875.61	0.00
October 2046	0.00	366,558.34	0.00
November 2046	0.00	355,459.15	0.00
December 2046	0.00	344,574.42	0.00
January 2047	0.00	333,900.56	0.00
February 2047	0.00	323,434.05	0.00
March 2047	0.00	313,171.42	0.00
April 2047	0.00	303,109.26	0.00
May 2047	0.00	293,244.20	0.00
June 2047	0.00	283,572.93	0.00
July 2047	0.00	274,092.21	0.00
August 2047	0.00	264,798.81	0.00
September 2047	0.00	255,689.59	0.00
October 2047	0.00	246,761.43	0.00
November 2047	0.00	238,011.27	0.00
December 2047	0.00	229,436.11	0.00
January 2048	0.00	221,032.98	0.00
February 2048	0.00	212,798.96	0.00
March 2048	0.00	204,731.18	0.00
April 2048	0.00	196,826.81	0.00
May 2048	0.00	189,083.07	0.00
June 2048	0.00	181,497.22	0.00
July 2048	0.00	174,066.56	0.00
August 2048	0.00	166,788.43	0.00
September 2048	0.00	159,660.23	0.00
October 2048	0.00	152,679.39	0.00
November 2048	0.00	145,843.37	0.00
December 2048	0.00	139,149.68	0.00
January 2049	0.00	132,595.87	0.00
February 2049	0.00	126,179.53	0.00
March 2049	0.00	119,898.28	0.00
April 2049	0.00	113,749.79	0.00
May 2049	0.00	107,731.76	0.00

<u>Distribution Date</u>	<u>Classes JG and JW (in the aggregate)</u>	<u>Classes PE and PW (in the aggregate)</u>	<u>Class QJ</u>
June 2049 .....	\$ 0.00	\$ 101,841.91	\$ 0.00
July 2049 .....	0.00	96,078.03	0.00
August 2049 .....	0.00	90,437.92	0.00
September 2049 .....	0.00	84,919.42	0.00
October 2049 .....	0.00	79,520.41	0.00
November 2049 .....	0.00	74,238.80	0.00
December 2049 .....	0.00	69,072.53	0.00
January 2050 .....	0.00	64,019.59	0.00
February 2050 .....	0.00	59,077.96	0.00
March 2050 .....	0.00	54,245.71	0.00
April 2050 .....	0.00	49,520.89	0.00
May 2050 .....	0.00	44,901.62	0.00
June 2050 .....	0.00	40,386.02	0.00
July 2050 .....	0.00	35,972.25	0.00
August 2050 .....	0.00	31,658.52	0.00
September 2050 .....	0.00	27,443.03	0.00
October 2050 .....	0.00	23,324.04	0.00
November 2050 .....	0.00	19,299.82	0.00
December 2050 .....	0.00	15,368.69	0.00
January 2051 .....	0.00	11,528.96	0.00
February 2051 .....	0.00	7,779.02	0.00
March 2051 .....	0.00	4,117.22	0.00
April 2051 .....	0.00	542.00	0.00
May 2051 and thereafter .....	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
Initial Balance . . . . .	\$81,250,000.00	\$128,589,000.00	\$29,291,000.00
October 2021 . . . . .	80,953,186.10	126,900,853.38	29,191,873.63
November 2021 . . . . .	80,614,399.55	125,142,926.70	29,083,243.85
December 2021 . . . . .	80,233,807.64	123,317,302.25	28,965,164.19
January 2022 . . . . .	79,811,630.95	121,426,165.28	28,837,695.49
February 2022 . . . . .	79,348,143.33	119,471,799.64	28,700,905.88
March 2022 . . . . .	78,843,671.75	117,456,583.07	28,554,870.72
April 2022 . . . . .	78,298,596.05	115,382,982.26	28,399,672.56
May 2022 . . . . .	77,713,348.63	113,253,547.62	28,235,401.07
June 2022 . . . . .	77,088,413.97	111,070,907.87	28,062,152.94
July 2022 . . . . .	76,424,328.01	108,837,764.40	27,880,031.80
August 2022 . . . . .	75,721,677.51	106,556,885.36	27,689,148.16
September 2022 . . . . .	74,981,099.22	104,231,099.71	27,489,619.24
October 2022 . . . . .	74,203,278.95	101,863,290.90	27,281,568.93
November 2022 . . . . .	73,388,950.60	99,456,390.61	27,065,127.60
December 2022 . . . . .	72,538,894.96	97,051,684.01	26,840,432.02
January 2023 . . . . .	71,653,938.51	94,688,218.03	26,607,625.19
February 2023 . . . . .	70,734,952.08	92,365,270.07	26,366,856.19
March 2023 . . . . .	69,782,849.38	90,082,129.94	26,118,280.07
April 2023 . . . . .	68,798,585.48	87,838,099.70	25,862,057.61
May 2023 . . . . .	67,783,155.17	85,632,493.39	25,598,355.21
June 2023 . . . . .	66,737,591.26	83,464,636.85	25,327,344.69
July 2023 . . . . .	65,662,962.70	81,333,867.53	25,049,203.10
August 2023 . . . . .	64,560,372.76	79,239,534.28	24,764,112.54
September 2023 . . . . .	63,430,957.01	77,180,997.14	24,472,259.92
October 2023 . . . . .	62,275,881.30	75,157,627.19	24,173,836.83
November 2023 . . . . .	61,096,339.64	73,168,806.32	23,869,039.26
December 2023 . . . . .	59,893,551.99	71,213,927.06	23,558,067.38
January 2024 . . . . .	58,668,762.10	69,292,392.43	23,249,824.88
February 2024 . . . . .	57,423,235.16	67,403,615.69	22,944,288.90
March 2024 . . . . .	56,195,522.34	65,547,020.25	22,641,436.76
April 2024 . . . . .	54,985,363.93	63,722,039.43	22,341,246.00
May 2024 . . . . .	53,792,503.95	61,928,116.32	22,043,694.32
June 2024 . . . . .	52,616,690.05	60,164,703.60	21,748,759.60
July 2024 . . . . .	51,457,673.47	58,431,263.42	21,456,419.90
August 2024 . . . . .	50,315,209.00	56,727,267.15	21,166,653.48
September 2024 . . . . .	49,189,054.92	55,052,195.32	20,879,438.75
October 2024 . . . . .	48,078,972.98	53,405,537.40	20,594,754.32
November 2024 . . . . .	46,984,728.28	51,786,791.68	20,312,578.95
December 2024 . . . . .	45,906,089.31	50,195,465.08	20,032,891.59
January 2025 . . . . .	44,842,827.84	48,631,073.05	19,755,671.37
February 2025 . . . . .	43,794,718.90	47,093,139.41	19,480,897.56
March 2025 . . . . .	42,761,540.74	45,581,196.17	19,208,549.64
April 2025 . . . . .	41,743,074.75	44,094,783.45	18,938,607.22
May 2025 . . . . .	40,739,105.47	42,633,449.29	18,671,050.09
June 2025 . . . . .	39,749,420.49	41,196,749.54	18,405,858.22
July 2025 . . . . .	38,773,810.44	39,784,247.74	18,143,011.73

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
August 2025	\$37,812,068.94	\$ 38,395,514.95	\$17,882,490.90
September 2025	36,863,992.57	37,031,621.08	17,624,276.17
October 2025	35,929,380.78	35,696,101.18	17,368,348.15
November 2025	35,008,035.93	34,388,345.38	17,114,687.60
December 2025	34,099,763.17	33,107,756.70	16,863,275.45
January 2026	33,204,370.45	31,853,750.77	16,614,092.76
February 2026	32,321,668.46	30,625,755.56	16,367,120.78
March 2026	31,451,470.60	29,423,211.12	16,122,340.89
April 2026	30,593,592.93	28,245,569.35	15,879,734.62
May 2026	29,747,854.14	27,092,293.73	15,639,283.67
June 2026	28,914,075.54	25,962,859.08	15,400,969.86
July 2026	28,092,080.95	24,856,751.33	15,164,775.20
August 2026	27,281,696.74	23,773,467.29	14,930,681.81
September 2026	26,482,751.78	22,712,514.40	14,698,671.97
October 2026	25,695,077.35	21,673,410.53	14,468,728.11
November 2026	24,918,507.17	20,655,683.75	14,240,832.80
December 2026	24,152,877.34	19,658,872.13	14,014,968.76
January 2027	23,402,993.80	18,682,523.51	13,791,118.83
February 2027	22,668,579.79	17,726,195.30	13,569,266.01
March 2027	21,949,311.16	16,789,454.30	13,349,393.44
April 2027	21,244,870.48	15,871,876.47	13,131,484.39
May 2027	20,554,946.83	14,973,046.75	12,915,522.26
June 2027	19,879,235.74	14,092,558.91	12,701,490.61
July 2027	19,217,438.99	13,230,015.29	12,489,373.11
August 2027	18,569,264.54	12,385,026.68	12,279,153.57
September 2027	17,934,426.38	11,557,212.12	12,070,815.96
October 2027	17,312,644.38	10,746,198.73	11,864,344.33
November 2027	16,703,644.23	9,951,621.54	11,659,722.91
December 2027	16,107,157.26	9,173,123.32	11,456,936.03
January 2028	15,522,920.36	8,410,354.42	11,255,968.15
February 2028	14,950,675.86	7,662,972.61	11,056,803.88
March 2028	14,390,171.41	6,930,642.95	10,859,427.94
April 2028	13,841,159.90	6,213,037.56	10,663,825.17
May 2028	13,303,399.29	5,509,835.58	10,469,980.54
June 2028	12,776,652.58	4,820,722.92	10,277,879.14
July 2028	12,260,687.65	4,145,392.20	10,087,506.20
August 2028	11,755,277.21	3,483,542.54	9,898,847.06
September 2028	11,260,198.64	2,834,879.47	9,712,868.30
October 2028	10,775,233.96	2,199,114.79	9,530,261.75
November 2028	10,300,169.69	1,575,966.41	9,350,967.73
December 2028	9,834,796.76	965,158.24	9,174,927.58
January 2029	9,378,910.46	366,420.09	9,002,083.65
February 2029	8,932,310.28	0.00	8,832,379.31
March 2029	8,494,799.90	0.00	8,665,758.93
April 2029	8,066,187.07	0.00	8,502,167.81
May 2029	7,646,283.49	0.00	8,341,552.24
June 2029	7,234,904.80	0.00	8,183,859.42

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
July 2029 . . . . .	\$ 6,831,870.46	\$ 0.00	\$ 8,029,037.49
August 2029 . . . . .	6,437,003.65	0.00	7,877,035.48
September 2029 . . . . .	6,050,131.25	0.00	7,727,803.32
October 2029 . . . . .	5,671,083.72	0.00	7,581,291.80
November 2029 . . . . .	5,299,695.03	0.00	7,437,452.58
December 2029 . . . . .	4,935,802.61	0.00	7,296,238.16
January 2030 . . . . .	4,579,247.28	0.00	7,157,601.87
February 2030 . . . . .	4,229,873.12	0.00	7,021,497.85
March 2030 . . . . .	3,887,527.51	0.00	6,887,881.04
April 2030 . . . . .	3,552,060.96	0.00	6,756,707.18
May 2030 . . . . .	3,223,327.09	0.00	6,627,932.78
June 2030 . . . . .	2,901,182.60	0.00	6,501,515.09
July 2030 . . . . .	2,585,487.11	0.00	6,377,412.14
August 2030 . . . . .	2,276,103.23	0.00	6,255,582.65
September 2030 . . . . .	1,972,896.36	0.00	6,135,986.11
October 2030 . . . . .	1,675,734.76	0.00	6,018,582.70
November 2030 . . . . .	1,384,489.39	0.00	5,903,333.27
December 2030 . . . . .	1,099,033.93	0.00	5,790,199.39
January 2031 . . . . .	819,244.66	0.00	5,679,143.30
February 2031 . . . . .	545,000.46	0.00	5,570,127.88
March 2031 . . . . .	276,182.72	0.00	5,463,116.68
April 2031 . . . . .	12,675.31	0.00	5,358,073.87
May 2031 . . . . .	0.00	0.00	5,254,964.27
June 2031 . . . . .	0.00	0.00	5,153,753.30
July 2031 . . . . .	0.00	0.00	5,054,407.00
August 2031 . . . . .	0.00	0.00	4,956,891.98
September 2031 . . . . .	0.00	0.00	4,861,175.47
October 2031 . . . . .	0.00	0.00	4,767,225.25
November 2031 . . . . .	0.00	0.00	4,675,009.67
December 2031 . . . . .	0.00	0.00	4,584,497.65
January 2032 . . . . .	0.00	0.00	4,495,658.63
February 2032 . . . . .	0.00	0.00	4,408,462.61
March 2032 . . . . .	0.00	0.00	4,322,880.11
April 2032 . . . . .	0.00	0.00	4,238,882.16
May 2032 . . . . .	0.00	0.00	4,156,440.31
June 2032 . . . . .	0.00	0.00	4,075,526.61
July 2032 . . . . .	0.00	0.00	3,996,113.59
August 2032 . . . . .	0.00	0.00	3,918,174.27
September 2032 . . . . .	0.00	0.00	3,841,682.15
October 2032 . . . . .	0.00	0.00	3,766,611.18
November 2032 . . . . .	0.00	0.00	3,692,935.80
December 2032 . . . . .	0.00	0.00	3,620,630.88
January 2033 . . . . .	0.00	0.00	3,549,671.71
February 2033 . . . . .	0.00	0.00	3,480,034.06
March 2033 . . . . .	0.00	0.00	3,411,694.10
April 2033 . . . . .	0.00	0.00	3,344,628.42
May 2033 . . . . .	0.00	0.00	3,278,814.04



<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
June 2033 . . . . .	\$ 0.00	\$ 0.00	\$ 3,214,228.37
July 2033 . . . . .	0.00	0.00	3,150,849.22
August 2033 . . . . .	0.00	0.00	3,088,654.79
September 2033 . . . . .	0.00	0.00	3,027,623.69
October 2033 . . . . .	0.00	0.00	2,967,734.86
November 2033 . . . . .	0.00	0.00	2,908,967.65
December 2033 . . . . .	0.00	0.00	2,851,301.78
January 2034 . . . . .	0.00	0.00	2,794,717.29
February 2034 . . . . .	0.00	0.00	2,739,194.61
March 2034 . . . . .	0.00	0.00	2,684,714.49
April 2034 . . . . .	0.00	0.00	2,631,258.04
May 2034 . . . . .	0.00	0.00	2,578,806.70
June 2034 . . . . .	0.00	0.00	2,527,342.23
July 2034 . . . . .	0.00	0.00	2,476,846.72
August 2034 . . . . .	0.00	0.00	2,427,302.58
September 2034 . . . . .	0.00	0.00	2,378,692.52
October 2034 . . . . .	0.00	0.00	2,330,999.56
November 2034 . . . . .	0.00	0.00	2,284,207.04
December 2034 . . . . .	0.00	0.00	2,238,298.56
January 2035 . . . . .	0.00	0.00	2,193,258.05
February 2035 . . . . .	0.00	0.00	2,149,069.71
March 2035 . . . . .	0.00	0.00	2,105,717.99
April 2035 . . . . .	0.00	0.00	2,063,187.67
May 2035 . . . . .	0.00	0.00	2,021,463.76
June 2035 . . . . .	0.00	0.00	1,980,531.55
July 2035 . . . . .	0.00	0.00	1,940,376.60
August 2035 . . . . .	0.00	0.00	1,900,984.71
September 2035 . . . . .	0.00	0.00	1,862,341.95
October 2035 . . . . .	0.00	0.00	1,824,434.62
November 2035 . . . . .	0.00	0.00	1,787,249.27
December 2035 . . . . .	0.00	0.00	1,750,772.70
January 2036 . . . . .	0.00	0.00	1,714,991.94
February 2036 . . . . .	0.00	0.00	1,679,894.24
March 2036 . . . . .	0.00	0.00	1,645,467.08
April 2036 . . . . .	0.00	0.00	1,611,698.18
May 2036 . . . . .	0.00	0.00	1,578,575.47
June 2036 . . . . .	0.00	0.00	1,546,087.08
July 2036 . . . . .	0.00	0.00	1,514,221.38
August 2036 . . . . .	0.00	0.00	1,482,966.92
September 2036 . . . . .	0.00	0.00	1,452,312.48
October 2036 . . . . .	0.00	0.00	1,422,247.01
November 2036 . . . . .	0.00	0.00	1,392,759.69
December 2036 . . . . .	0.00	0.00	1,363,839.87
January 2037 . . . . .	0.00	0.00	1,335,477.11
February 2037 . . . . .	0.00	0.00	1,307,661.13
March 2037 . . . . .	0.00	0.00	1,280,381.86
April 2037 . . . . .	0.00	0.00	1,253,629.40

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
May 2037	\$ 0.00	\$ 0.00	\$ 1,227,394.02
June 2037	0.00	0.00	1,201,666.18
July 2037	0.00	0.00	1,176,436.50
August 2037	0.00	0.00	1,151,695.78
September 2037	0.00	0.00	1,127,434.96
October 2037	0.00	0.00	1,103,645.16
November 2037	0.00	0.00	1,080,317.67
December 2037	0.00	0.00	1,057,443.92
January 2038	0.00	0.00	1,035,015.49
February 2038	0.00	0.00	1,013,024.13
March 2038	0.00	0.00	991,461.73
April 2038	0.00	0.00	970,320.31
May 2038	0.00	0.00	949,592.06
June 2038	0.00	0.00	929,269.29
July 2038	0.00	0.00	909,344.47
August 2038	0.00	0.00	889,810.17
September 2038	0.00	0.00	870,659.14
October 2038	0.00	0.00	851,884.22
November 2038	0.00	0.00	833,478.40
December 2038	0.00	0.00	815,434.80
January 2039	0.00	0.00	797,746.65
February 2039	0.00	0.00	780,407.31
March 2039	0.00	0.00	763,410.26
April 2039	0.00	0.00	746,749.09
May 2039	0.00	0.00	730,417.52
June 2039	0.00	0.00	714,409.38
July 2039	0.00	0.00	698,718.60
August 2039	0.00	0.00	683,339.23
September 2039	0.00	0.00	668,265.43
October 2039	0.00	0.00	653,491.45
November 2039	0.00	0.00	639,011.67
December 2039	0.00	0.00	624,820.54
January 2040	0.00	0.00	610,912.65
February 2040	0.00	0.00	597,282.65
March 2040	0.00	0.00	583,925.31
April 2040	0.00	0.00	570,835.49
May 2040	0.00	0.00	558,008.13
June 2040	0.00	0.00	545,438.29
July 2040	0.00	0.00	533,121.10
August 2040	0.00	0.00	521,051.78
September 2040	0.00	0.00	509,225.63
October 2040	0.00	0.00	497,638.07
November 2040	0.00	0.00	486,284.55
December 2040	0.00	0.00	475,160.65
January 2041	0.00	0.00	464,262.01
February 2041	0.00	0.00	453,584.35
March 2041	0.00	0.00	443,123.47

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
April 2041 . . . . .	\$ 0.00	\$ 0.00	\$ 432,875.24
May 2041 . . . . .	0.00	0.00	422,835.63
June 2041 . . . . .	0.00	0.00	413,000.64
July 2041 . . . . .	0.00	0.00	403,366.39
August 2041 . . . . .	0.00	0.00	393,929.05
September 2041 . . . . .	0.00	0.00	384,684.85
October 2041 . . . . .	0.00	0.00	375,630.10
November 2041 . . . . .	0.00	0.00	366,761.18
December 2041 . . . . .	0.00	0.00	358,074.54
January 2042 . . . . .	0.00	0.00	349,566.68
February 2042 . . . . .	0.00	0.00	341,234.18
March 2042 . . . . .	0.00	0.00	333,073.66
April 2042 . . . . .	0.00	0.00	325,081.84
May 2042 . . . . .	0.00	0.00	317,255.46
June 2042 . . . . .	0.00	0.00	309,591.35
July 2042 . . . . .	0.00	0.00	302,086.38
August 2042 . . . . .	0.00	0.00	294,737.48
September 2042 . . . . .	0.00	0.00	287,541.65
October 2042 . . . . .	0.00	0.00	280,495.94
November 2042 . . . . .	0.00	0.00	273,597.43
December 2042 . . . . .	0.00	0.00	266,843.29
January 2043 . . . . .	0.00	0.00	260,230.73
February 2043 . . . . .	0.00	0.00	253,757.00
March 2043 . . . . .	0.00	0.00	247,419.41
April 2043 . . . . .	0.00	0.00	241,215.31
May 2043 . . . . .	0.00	0.00	235,142.13
June 2043 . . . . .	0.00	0.00	229,197.31
July 2043 . . . . .	0.00	0.00	223,378.35
August 2043 . . . . .	0.00	0.00	217,682.80
September 2043 . . . . .	0.00	0.00	212,108.27
October 2043 . . . . .	0.00	0.00	206,652.38
November 2043 . . . . .	0.00	0.00	201,312.83
December 2043 . . . . .	0.00	0.00	196,087.33
January 2044 . . . . .	0.00	0.00	190,973.65
February 2044 . . . . .	0.00	0.00	185,969.62
March 2044 . . . . .	0.00	0.00	181,073.06
April 2044 . . . . .	0.00	0.00	176,281.89
May 2044 . . . . .	0.00	0.00	171,594.02
June 2044 . . . . .	0.00	0.00	167,007.43
July 2044 . . . . .	0.00	0.00	162,520.11
August 2044 . . . . .	0.00	0.00	158,130.13
September 2044 . . . . .	0.00	0.00	153,835.55
October 2044 . . . . .	0.00	0.00	149,634.49
November 2044 . . . . .	0.00	0.00	145,525.10
December 2044 . . . . .	0.00	0.00	141,505.58
January 2045 . . . . .	0.00	0.00	137,574.13
February 2045 . . . . .	0.00	0.00	133,729.02

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
March 2045	\$ 0.00	\$ 0.00	\$ 129,968.52
April 2045	0.00	0.00	126,290.97
May 2045	0.00	0.00	122,694.70
June 2045	0.00	0.00	119,178.10
July 2045	0.00	0.00	115,739.58
August 2045	0.00	0.00	112,377.58
September 2045	0.00	0.00	109,090.57
October 2045	0.00	0.00	105,877.05
November 2045	0.00	0.00	102,735.55
December 2045	0.00	0.00	99,664.63
January 2046	0.00	0.00	96,662.86
February 2046	0.00	0.00	93,728.86
March 2046	0.00	0.00	90,861.26
April 2046	0.00	0.00	88,058.73
May 2046	0.00	0.00	85,319.95
June 2046	0.00	0.00	82,643.63
July 2046	0.00	0.00	80,028.51
August 2046	0.00	0.00	77,473.36
September 2046	0.00	0.00	74,976.94
October 2046	0.00	0.00	72,538.08
November 2046	0.00	0.00	70,155.60
December 2046	0.00	0.00	67,828.35
January 2047	0.00	0.00	65,555.21
February 2047	0.00	0.00	63,335.07
March 2047	0.00	0.00	61,166.85
April 2047	0.00	0.00	59,049.48
May 2047	0.00	0.00	56,981.93
June 2047	0.00	0.00	54,963.17
July 2047	0.00	0.00	52,992.19
August 2047	0.00	0.00	51,068.02
September 2047	0.00	0.00	49,189.69
October 2047	0.00	0.00	47,356.25
November 2047	0.00	0.00	45,566.77
December 2047	0.00	0.00	43,820.35
January 2048	0.00	0.00	42,116.09
February 2048	0.00	0.00	40,453.11
March 2048	0.00	0.00	38,830.56
April 2048	0.00	0.00	37,247.59
May 2048	0.00	0.00	35,703.38
June 2048	0.00	0.00	34,197.12
July 2048	0.00	0.00	32,728.01
August 2048	0.00	0.00	31,295.28
September 2048	0.00	0.00	29,898.15
October 2048	0.00	0.00	28,535.89
November 2048	0.00	0.00	27,207.75
December 2048	0.00	0.00	25,913.02
January 2049	0.00	0.00	24,650.99

<u>Distribution Date</u>	<u>Classes MB, MC, MT, MU and XC (in the aggregate)</u>	<u>Classes AJ, AL, AP and AZ (in the aggregate)</u>	<u>Classes HB and HW (in the aggregate)</u>
February 2049 .....	\$ 0.00	\$ 0.00	\$ 23,420.96
March 2049 .....	0.00	0.00	22,222.26
April 2049 .....	0.00	0.00	21,054.23
May 2049 .....	0.00	0.00	19,916.20
June 2049 .....	0.00	0.00	18,807.55
July 2049 .....	0.00	0.00	17,727.63
August 2049 .....	0.00	0.00	16,675.84
September 2049 .....	0.00	0.00	15,651.58
October 2049 .....	0.00	0.00	14,654.25
November 2049 .....	0.00	0.00	13,683.26
December 2049 .....	0.00	0.00	12,738.07
January 2050 .....	0.00	0.00	11,818.09
February 2050 .....	0.00	0.00	10,922.80
March 2050 .....	0.00	0.00	10,051.65
April 2050 .....	0.00	0.00	9,204.12
May 2050 .....	0.00	0.00	8,379.70
June 2050 .....	0.00	0.00	7,577.88
July 2050 .....	0.00	0.00	6,798.16
August 2050 .....	0.00	0.00	6,040.06
September 2050 .....	0.00	0.00	5,303.11
October 2050 .....	0.00	0.00	4,586.84
November 2050 .....	0.00	0.00	3,890.80
December 2050 .....	0.00	0.00	3,214.53
January 2051 .....	0.00	0.00	2,557.60
February 2051 .....	0.00	0.00	1,919.58
March 2051 .....	0.00	0.00	1,300.05
April 2051 .....	0.00	0.00	698.59
May 2051 .....	0.00	0.00	114.81
June 2051 and thereafter .....	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
Initial Balance .....	\$4,466,586.00	\$59,804,444.00	\$9,303,908.00
October 2021 .....	4,383,206.41	59,631,829.70	9,195,940.86
November 2021 .....	4,279,112.54	59,439,749.52	9,045,735.51
December 2021 .....	4,154,467.61	59,228,289.98	8,853,428.71
January 2022 .....	4,009,501.28	58,997,552.58	8,619,290.74
February 2022 .....	3,844,509.69	58,747,653.74	8,343,726.42
March 2022 .....	3,659,855.24	58,478,724.76	8,027,275.44
April 2022 .....	3,455,966.11	58,190,911.72	7,670,612.22
May 2022 .....	3,233,335.46	57,884,375.36	7,274,545.14
June 2022 .....	2,992,520.35	57,559,290.96	6,840,015.25
July 2022 .....	2,734,140.41	57,215,848.17	6,368,094.34
August 2022 .....	2,458,876.09	56,854,250.89	5,859,982.37
September 2022 .....	2,167,466.79	56,474,717.04	5,317,004.46
October 2022 .....	1,860,708.60	56,077,478.36	4,740,607.14
November 2022 .....	1,539,451.76	55,662,780.23	4,132,354.04
December 2022 .....	1,204,597.93	55,230,881.38	3,493,921.11
January 2023 .....	857,097.09	54,782,053.64	2,827,091.23
February 2023 .....	497,944.32	54,316,581.70	2,133,748.20
March 2023 .....	128,176.18	53,834,762.77	1,415,870.36
April 2023 .....	0.00	53,336,906.31	675,523.60
May 2023 .....	0.00	52,823,333.65	0.00
June 2023 .....	0.00	52,294,377.73	0.00
July 2023 .....	0.00	51,750,382.67	0.00
August 2023 .....	0.00	51,191,703.43	0.00
September 2023 .....	0.00	50,618,705.42	0.00
October 2023 .....	0.00	50,031,764.09	0.00
November 2023 .....	0.00	49,431,264.54	0.00
December 2023 .....	0.00	48,817,601.07	0.00
January 2024 .....	0.00	48,191,176.77	0.00
February 2024 .....	0.00	47,562,286.06	0.00
March 2024 .....	0.00	46,938,908.22	0.00
April 2024 .....	0.00	46,320,997.13	0.00
May 2024 .....	0.00	45,708,507.07	0.00
June 2024 .....	0.00	45,101,392.69	0.00
July 2024 .....	0.00	44,499,609.01	0.00
August 2024 .....	0.00	43,903,111.39	0.00
September 2024 .....	0.00	43,311,855.60	0.00
October 2024 .....	0.00	42,725,797.74	0.00
November 2024 .....	0.00	42,144,894.27	0.00
December 2024 .....	0.00	41,569,102.01	0.00
January 2025 .....	0.00	40,998,378.14	0.00
February 2025 .....	0.00	40,432,680.18	0.00
March 2025 .....	0.00	39,871,965.99	0.00
April 2025 .....	0.00	39,316,193.79	0.00
May 2025 .....	0.00	38,765,322.12	0.00
June 2025 .....	0.00	38,219,309.89	0.00
July 2025 .....	0.00	37,678,116.31	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
August 2025	\$ 0.00	\$37,141,700.95	\$ 0.00
September 2025	0.00	36,610,023.70	0.00
October 2025	0.00	36,083,044.77	0.00
November 2025	0.00	35,560,724.70	0.00
December 2025	0.00	35,043,024.36	0.00
January 2026	0.00	34,529,904.93	0.00
February 2026	0.00	34,021,327.92	0.00
March 2026	0.00	33,517,255.13	0.00
April 2026	0.00	33,017,648.71	0.00
May 2026	0.00	32,522,471.07	0.00
June 2026	0.00	32,031,684.97	0.00
July 2026	0.00	31,545,253.46	0.00
August 2026	0.00	31,063,139.88	0.00
September 2026	0.00	30,585,307.90	0.00
October 2026	0.00	30,111,721.44	0.00
November 2026	0.00	29,642,344.77	0.00
December 2026	0.00	29,177,142.40	0.00
January 2027	0.00	28,716,079.18	0.00
February 2027	0.00	28,259,120.21	0.00
March 2027	0.00	27,806,230.88	0.00
April 2027	0.00	27,357,376.89	0.00
May 2027	0.00	26,912,524.19	0.00
June 2027	0.00	26,471,639.03	0.00
July 2027	0.00	26,034,687.92	0.00
August 2027	0.00	25,601,637.66	0.00
September 2027	0.00	25,172,455.31	0.00
October 2027	0.00	24,747,108.21	0.00
November 2027	0.00	24,325,563.94	0.00
December 2027	0.00	23,907,790.40	0.00
January 2028	0.00	23,493,755.69	0.00
February 2028	0.00	23,083,428.22	0.00
March 2028	0.00	22,676,776.64	0.00
April 2028	0.00	22,273,769.85	0.00
May 2028	0.00	21,874,377.01	0.00
June 2028	0.00	21,478,567.55	0.00
July 2028	0.00	21,086,311.13	0.00
August 2028	0.00	20,697,577.66	0.00
September 2028	0.00	20,312,337.31	0.00
October 2028	0.00	19,931,128.55	0.00
November 2028	0.00	19,556,825.39	0.00
December 2028	0.00	19,189,305.67	0.00
January 2029	0.00	18,828,449.38	0.00
February 2029	0.00	18,474,138.59	0.00
March 2029	0.00	18,126,257.43	0.00
April 2029	0.00	17,784,692.02	0.00
May 2029	0.00	17,449,330.51	0.00
June 2029	0.00	17,120,062.94	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
July 2029 . . . . .	\$ 0.00	\$16,796,781.32	\$ 0.00
August 2029 . . . . .	0.00	16,479,379.49	0.00
September 2029 . . . . .	0.00	16,167,753.17	0.00
October 2029 . . . . .	0.00	15,861,799.90	0.00
November 2029 . . . . .	0.00	15,561,418.98	0.00
December 2029 . . . . .	0.00	15,266,511.49	0.00
January 2030 . . . . .	0.00	14,976,980.23	0.00
February 2030 . . . . .	0.00	14,692,729.69	0.00
March 2030 . . . . .	0.00	14,413,666.02	0.00
April 2030 . . . . .	0.00	14,139,697.02	0.00
May 2030 . . . . .	0.00	13,870,732.10	0.00
June 2030 . . . . .	0.00	13,606,682.23	0.00
July 2030 . . . . .	0.00	13,347,459.96	0.00
August 2030 . . . . .	0.00	13,092,979.37	0.00
September 2030 . . . . .	0.00	12,843,156.01	0.00
October 2030 . . . . .	0.00	12,597,906.92	0.00
November 2030 . . . . .	0.00	12,357,150.62	0.00
December 2030 . . . . .	0.00	12,120,807.01	0.00
January 2031 . . . . .	0.00	11,888,797.41	0.00
February 2031 . . . . .	0.00	11,661,044.52	0.00
March 2031 . . . . .	0.00	11,437,472.38	0.00
April 2031 . . . . .	0.00	11,218,006.38	0.00
May 2031 . . . . .	0.00	11,002,573.20	0.00
June 2031 . . . . .	0.00	10,791,100.80	0.00
July 2031 . . . . .	0.00	10,583,518.41	0.00
August 2031 . . . . .	0.00	10,379,756.50	0.00
September 2031 . . . . .	0.00	10,179,746.76	0.00
October 2031 . . . . .	0.00	9,983,422.07	0.00
November 2031 . . . . .	0.00	9,790,716.49	0.00
December 2031 . . . . .	0.00	9,601,565.24	0.00
January 2032 . . . . .	0.00	9,415,904.67	0.00
February 2032 . . . . .	0.00	9,233,672.24	0.00
March 2032 . . . . .	0.00	9,054,806.54	0.00
April 2032 . . . . .	0.00	8,879,247.19	0.00
May 2032 . . . . .	0.00	8,706,934.92	0.00
June 2032 . . . . .	0.00	8,537,811.45	0.00
July 2032 . . . . .	0.00	8,371,819.57	0.00
August 2032 . . . . .	0.00	8,208,903.05	0.00
September 2032 . . . . .	0.00	8,049,006.64	0.00
October 2032 . . . . .	0.00	7,892,076.10	0.00
November 2032 . . . . .	0.00	7,738,058.10	0.00
December 2032 . . . . .	0.00	7,586,900.27	0.00
January 2033 . . . . .	0.00	7,438,551.16	0.00
February 2033 . . . . .	0.00	7,292,960.23	0.00
March 2033 . . . . .	0.00	7,150,077.81	0.00
April 2033 . . . . .	0.00	7,009,855.13	0.00
May 2033 . . . . .	0.00	6,872,244.27	0.00



<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
June 2033 .....	\$ 0.00	\$ 6,737,198.14	\$ 0.00
July 2033 .....	0.00	6,604,670.50	0.00
August 2033 .....	0.00	6,474,615.92	0.00
September 2033 .....	0.00	6,346,989.76	0.00
October 2033 .....	0.00	6,221,748.19	0.00
November 2033 .....	0.00	6,098,848.12	0.00
December 2033 .....	0.00	5,978,247.25	0.00
January 2034 .....	0.00	5,859,904.02	0.00
February 2034 .....	0.00	5,743,777.60	0.00
March 2034 .....	0.00	5,629,827.88	0.00
April 2034 .....	0.00	5,518,015.45	0.00
May 2034 .....	0.00	5,408,301.63	0.00
June 2034 .....	0.00	5,300,648.39	0.00
July 2034 .....	0.00	5,195,018.38	0.00
August 2034 .....	0.00	5,091,374.92	0.00
September 2034 .....	0.00	4,989,681.98	0.00
October 2034 .....	0.00	4,889,904.15	0.00
November 2034 .....	0.00	4,792,006.67	0.00
December 2034 .....	0.00	4,695,955.38	0.00
January 2035 .....	0.00	4,601,716.73	0.00
February 2035 .....	0.00	4,509,257.77	0.00
March 2035 .....	0.00	4,418,546.12	0.00
April 2035 .....	0.00	4,329,549.99	0.00
May 2035 .....	0.00	4,242,238.15	0.00
June 2035 .....	0.00	4,156,579.92	0.00
July 2035 .....	0.00	4,072,545.16	0.00
August 2035 .....	0.00	3,990,104.28	0.00
September 2035 .....	0.00	3,909,228.21	0.00
October 2035 .....	0.00	3,829,888.39	0.00
November 2035 .....	0.00	3,752,056.77	0.00
December 2035 .....	0.00	3,675,705.80	0.00
January 2036 .....	0.00	3,600,808.43	0.00
February 2036 .....	0.00	3,527,338.07	0.00
March 2036 .....	0.00	3,455,268.62	0.00
April 2036 .....	0.00	3,384,574.45	0.00
May 2036 .....	0.00	3,315,230.37	0.00
June 2036 .....	0.00	3,247,211.64	0.00
July 2036 .....	0.00	3,180,493.97	0.00
August 2036 .....	0.00	3,115,053.51	0.00
September 2036 .....	0.00	3,050,866.81	0.00
October 2036 .....	0.00	2,987,910.86	0.00
November 2036 .....	0.00	2,926,163.06	0.00
December 2036 .....	0.00	2,865,601.21	0.00
January 2037 .....	0.00	2,806,203.49	0.00
February 2037 .....	0.00	2,747,948.49	0.00
March 2037 .....	0.00	2,690,815.18	0.00
April 2037 .....	0.00	2,634,782.91	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
May 2037 .....	\$ 0.00	\$ 2,579,831.38	\$ 0.00
June 2037 .....	0.00	2,525,940.68	0.00
July 2037 .....	0.00	2,473,091.23	0.00
August 2037 .....	0.00	2,421,263.81	0.00
September 2037 .....	0.00	2,370,439.56	0.00
October 2037 .....	0.00	2,320,599.94	0.00
November 2037 .....	0.00	2,271,726.75	0.00
December 2037 .....	0.00	2,223,802.11	0.00
January 2038 .....	0.00	2,176,808.46	0.00
February 2038 .....	0.00	2,130,728.58	0.00
March 2038 .....	0.00	2,085,545.51	0.00
April 2038 .....	0.00	2,041,242.65	0.00
May 2038 .....	0.00	1,997,803.66	0.00
June 2038 .....	0.00	1,955,212.50	0.00
July 2038 .....	0.00	1,913,453.44	0.00
August 2038 .....	0.00	1,872,511.01	0.00
September 2038 .....	0.00	1,832,370.02	0.00
October 2038 .....	0.00	1,793,015.56	0.00
November 2038 .....	0.00	1,754,433.00	0.00
December 2038 .....	0.00	1,716,607.95	0.00
January 2039 .....	0.00	1,679,526.29	0.00
February 2039 .....	0.00	1,643,174.17	0.00
March 2039 .....	0.00	1,607,537.95	0.00
April 2039 .....	0.00	1,572,604.29	0.00
May 2039 .....	0.00	1,538,360.04	0.00
June 2039 .....	0.00	1,504,792.31	0.00
July 2039 .....	0.00	1,471,888.46	0.00
August 2039 .....	0.00	1,439,636.05	0.00
September 2039 .....	0.00	1,408,022.88	0.00
October 2039 .....	0.00	1,377,036.96	0.00
November 2039 .....	0.00	1,346,666.53	0.00
December 2039 .....	0.00	1,316,900.04	0.00
January 2040 .....	0.00	1,287,726.14	0.00
February 2040 .....	0.00	1,259,133.69	0.00
March 2040 .....	0.00	1,231,111.76	0.00
April 2040 .....	0.00	1,203,649.62	0.00
May 2040 .....	0.00	1,176,736.70	0.00
June 2040 .....	0.00	1,150,362.68	0.00
July 2040 .....	0.00	1,124,517.37	0.00
August 2040 .....	0.00	1,099,190.81	0.00
September 2040 .....	0.00	1,074,373.20	0.00
October 2040 .....	0.00	1,050,054.91	0.00
November 2040 .....	0.00	1,026,226.50	0.00
December 2040 .....	0.00	1,002,878.71	0.00
January 2041 .....	0.00	980,002.43	0.00
February 2041 .....	0.00	957,588.71	0.00
March 2041 .....	0.00	935,628.79	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
April 2041 .....	\$ 0.00	\$ 914,114.05	\$ 0.00
May 2041 .....	0.00	893,036.04	0.00
June 2041 .....	0.00	872,386.45	0.00
July 2041 .....	0.00	852,157.13	0.00
August 2041 .....	0.00	832,340.08	0.00
September 2041 .....	0.00	812,927.45	0.00
October 2041 .....	0.00	793,911.51	0.00
November 2041 .....	0.00	775,284.71	0.00
December 2041 .....	0.00	757,039.60	0.00
January 2042 .....	0.00	739,168.90	0.00
February 2042 .....	0.00	721,665.43	0.00
March 2042 .....	0.00	704,522.18	0.00
April 2042 .....	0.00	687,732.23	0.00
May 2042 .....	0.00	671,288.82	0.00
June 2042 .....	0.00	655,185.28	0.00
July 2042 .....	0.00	639,415.10	0.00
August 2042 .....	0.00	623,971.87	0.00
September 2042 .....	0.00	608,849.28	0.00
October 2042 .....	0.00	594,041.18	0.00
November 2042 .....	0.00	579,541.49	0.00
December 2042 .....	0.00	565,344.27	0.00
January 2043 .....	0.00	551,443.68	0.00
February 2043 .....	0.00	537,833.99	0.00
March 2043 .....	0.00	524,509.57	0.00
April 2043 .....	0.00	511,464.89	0.00
May 2043 .....	0.00	498,694.55	0.00
June 2043 .....	0.00	486,193.21	0.00
July 2043 .....	0.00	473,955.66	0.00
August 2043 .....	0.00	461,976.77	0.00
September 2043 .....	0.00	450,251.51	0.00
October 2043 .....	0.00	438,774.94	0.00
November 2043 .....	0.00	427,542.23	0.00
December 2043 .....	0.00	416,548.60	0.00
January 2044 .....	0.00	405,789.41	0.00
February 2044 .....	0.00	395,260.06	0.00
March 2044 .....	0.00	384,956.06	0.00
April 2044 .....	0.00	374,873.00	0.00
May 2044 .....	0.00	365,006.55	0.00
June 2044 .....	0.00	355,352.46	0.00
July 2044 .....	0.00	345,906.56	0.00
August 2044 .....	0.00	336,664.75	0.00
September 2044 .....	0.00	327,623.03	0.00
October 2044 .....	0.00	318,777.45	0.00
November 2044 .....	0.00	310,124.15	0.00
December 2044 .....	0.00	301,659.32	0.00
January 2045 .....	0.00	293,379.25	0.00
February 2045 .....	0.00	285,280.28	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
March 2045	\$ 0.00	\$ 277,358.82	\$ 0.00
April 2045	0.00	269,611.36	0.00
May 2045	0.00	262,034.44	0.00
June 2045	0.00	254,624.68	0.00
July 2045	0.00	247,378.75	0.00
August 2045	0.00	240,293.38	0.00
September 2045	0.00	233,365.38	0.00
October 2045	0.00	226,591.61	0.00
November 2045	0.00	219,968.99	0.00
December 2045	0.00	213,494.49	0.00
January 2046	0.00	207,165.14	0.00
February 2046	0.00	200,978.04	0.00
March 2046	0.00	194,930.33	0.00
April 2046	0.00	189,019.21	0.00
May 2046	0.00	183,241.93	0.00
June 2046	0.00	177,595.79	0.00
July 2046	0.00	172,078.15	0.00
August 2046	0.00	166,686.41	0.00
September 2046	0.00	161,418.03	0.00
October 2046	0.00	156,270.51	0.00
November 2046	0.00	151,241.40	0.00
December 2046	0.00	146,328.29	0.00
January 2047	0.00	141,528.82	0.00
February 2047	0.00	136,840.69	0.00
March 2047	0.00	132,261.62	0.00
April 2047	0.00	127,789.39	0.00
May 2047	0.00	123,421.81	0.00
June 2047	0.00	119,156.74	0.00
July 2047	0.00	114,992.09	0.00
August 2047	0.00	110,925.78	0.00
September 2047	0.00	106,955.80	0.00
October 2047	0.00	103,080.17	0.00
November 2047	0.00	99,296.94	0.00
December 2047	0.00	95,604.20	0.00
January 2048	0.00	92,000.08	0.00
February 2048	0.00	88,482.75	0.00
March 2048	0.00	85,050.41	0.00
April 2048	0.00	81,701.29	0.00
May 2048	0.00	78,433.66	0.00
June 2048	0.00	75,245.83	0.00
July 2048	0.00	72,136.13	0.00
August 2048	0.00	69,102.92	0.00
September 2048	0.00	66,144.61	0.00
October 2048	0.00	63,259.62	0.00
November 2048	0.00	60,446.42	0.00
December 2048	0.00	57,703.50	0.00
January 2049	0.00	55,029.37	0.00

<u>Distribution Date</u>	<u>Class HQ</u>	<u>Classes TA, TJ and TW (in the aggregate)</u>	<u>Class UA</u>
February 2049 . . . . .	\$ 0.00	\$ 52,422.58	\$ 0.00
March 2049 . . . . .	0.00	49,881.72	0.00
April 2049 . . . . .	0.00	47,405.37	0.00
May 2049 . . . . .	0.00	44,992.19	0.00
June 2049 . . . . .	0.00	42,640.81	0.00
July 2049 . . . . .	0.00	40,349.93	0.00
August 2049 . . . . .	0.00	38,118.25	0.00
September 2049 . . . . .	0.00	35,944.52	0.00
October 2049 . . . . .	0.00	33,827.49	0.00
November 2049 . . . . .	0.00	31,765.94	0.00
December 2049 . . . . .	0.00	29,758.68	0.00
January 2050 . . . . .	0.00	27,804.55	0.00
February 2050 . . . . .	0.00	25,902.39	0.00
March 2050 . . . . .	0.00	24,051.09	0.00
April 2050 . . . . .	0.00	22,249.54	0.00
May 2050 . . . . .	0.00	20,496.67	0.00
June 2050 . . . . .	0.00	18,791.41	0.00
July 2050 . . . . .	0.00	17,132.72	0.00
August 2050 . . . . .	0.00	15,519.60	0.00
September 2050 . . . . .	0.00	13,951.04	0.00
October 2050 . . . . .	0.00	12,426.07	0.00
November 2050 . . . . .	0.00	10,943.73	0.00
December 2050 . . . . .	0.00	9,503.08	0.00
January 2051 . . . . .	0.00	8,103.20	0.00
February 2051 . . . . .	0.00	6,743.19	0.00
March 2051 . . . . .	0.00	5,422.16	0.00
April 2051 . . . . .	0.00	4,139.26	0.00
May 2051 . . . . .	0.00	2,893.62	0.00
June 2051 . . . . .	0.00	1,684.42	0.00
July 2051 . . . . .	0.00	510.85	0.00
August 2051 and thereafter . . . . .	0.00	0.00	0.00

**Exhibit A**

**Underlying Certificates**

Trust Asset Group	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type(1)	Final Distribution Date	Principal Type(1)	Original Principal Balance of Class	Underlying Certificate Factor (2)	Principal Balance in Trust	Percentage of Class in Trust	Ginnie Mae I or II
8	Ginnie Mae	2021-096	HL	June 30, 2021	38382LWF4	1.5%	FIX	June 2051	PAC	\$ 332,714	1,000,000,000	\$ 332,714	100.00000000000000%	II
8	Ginnie Mae	2021-104	HU(3)	June 30, 2021	38382LUM75	1.5	FIX	June 2051	PAC	4,652,276	1,000,000,000	4,652,276	100.00000000000000	II
8	Ginnie Mae	2021-149	KL	August 30, 2021	38382XCW3	1.5	FIX	August 2051	SCH	996,587	1,000,000,000	996,587	100.00000000000000	II
8	Ginnie Mae	2021-149	KT	August 30, 2021	38382XCX9	1.5	FIX	August 2051	PAC	951,569	1,000,000,000	951,569	100.00000000000000	II

- (1) As defined under "Class Types" in Appendix I to the Base Offering Circular.
- (2) Underlying Certificate Factors are as of September 2021.
- (3) MX Class.



**\$677,181,419**

**Government National  
Mortgage Association**

**GINNIE MAE<sup>®</sup>**

**Guaranteed REMIC  
Pass-Through Securities  
and MX Securities  
Ginnie Mae REMIC Trust 2021-159**

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*OFFERING CIRCULAR SUPPLEMENT*  
September 24, 2021

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**TRUIST**   
**Tribal Capital Markets**

The Truist logo consists of the word "TRUIST" in a bold, dark blue sans-serif font, followed by a square icon containing the letters "TH" in a stylized, white font. Below this, the text "Tribal Capital Markets" is written in a smaller, dark blue sans-serif font.