

\$969,928,717
Government National Mortgage Association
GINNIE MAE®
Guaranteed REMIC Pass-Through Securities
and MX Securities
Ginnie Mae REMIC Trust 2019-096

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 August 30, 2019.

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

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

Class of REMIC Securities	Original Principal Balance(2)	Interest Rate	Principal Type(3)	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 1						
FA	\$50,000,000	3.00%	PT	FLX	38381XB47	August 2049
SA	20,000,000	(5)	PT	FLT	38381XB54	August 2049
SA	20,000,000	(5)	NTL (PT)	INV/IO	38381XB62	August 2049
Security Group 2						
AF(1)	45,600,000	(5)	PT	FLT	38381XB70	August 2049
AS(1)	45,600,000	(5)	NTL (PT)	INV/IO	38381XB88	August 2049
FP(1)	44,697,142	(5)	PAC/AD	FLT	38381XB96	August 2049
PA	110,897,000	3.00	PAC/AD	FLX	38381XC20	June 2049
PZ	845,858	3.00	PAC/AD	FIX/Z	38381XC38	August 2049
SP(1)	44,697,142	(5)	NTL (PAC/AD)	INV/IO	38381XC46	August 2049
Z	25,960,000	4.00	SUP	FLX/Z	38381XC53	August 2049
Security Group 3						
KA(1)	80,000,000	3.50	PAC/AD	FLX	38381XC61	August 2049
ZK	22,384,933	3.50	SUP	FLX/Z	38381XC79	August 2049
Security Group 4						
DA	39,428,631	3.00	PAC/AD	FIX	38381XC87	August 2049
DE	35,000,000	2.35	PAC/AD	FIX	38381XC95	August 2049
DF(1)	24,495,921	(5)	PAC/AD	FLT	38381XD29	August 2049
DS	24,495,921	(5)	NTL (PAC/AD)	INV/IO	38381XD37	August 2049
FD	107,723,445	(5)	PT	FLT	38381XD45	August 2049
JA	125,000,000	2.50	PAC/AD	FIX	38381XD52	July 2049
MB	971,448	2.50	PAC/AD	FIX	38381XD60	August 2049
SD(1)	107,723,445	(5)	NTL (PT)	INV/IO	38381XD78	August 2049
ZD(1)	44,412,613	3.00	SUP	FIX/Z	38381XD86	August 2049
Security Group 5						
EA(1)	33,427,000	3.00	PAC/AD	FLX	38381XD94	August 2049
FE(1)	15,387,238	(5)	PT	FLT	38381XE28	August 2049
SE	15,387,238	(5)	NTL (PT)	INV/IO	38381XE36	August 2049
ZE(1)	5,041,096	3.00	SUP	FIX/Z	38381XE44	August 2049
Security Group 6						
AI	118,205,669	3.50	NTL (SC/PT)	FIX/IO	38381XE51	March 2045
Security Group 7						
BI	81,120,242	4.00	NTL (SC/PT)	FIX/IO	38381XE69	March 2048
Security Group 8						
FG(1)	25,779,178	(5)	PT	FLT	38381XE77	August 2049
GE(1)	41,895,778	2.00	PAC/AD	FIX	38381XE85	August 2049
GF(1)	11,970,222	(5)	PAC/AD	FLT	38381XE93	August 2049
GS(1)	11,970,222	(5)	NTL (PAC/AD)	INV/IO	38381XF27	August 2049
SG(1)	25,779,178	(5)	NTL (PT)	INV/IO	38381XF35	August 2049
ZG	10,581,947	3.00	SUP	FIX/Z	38381XF43	August 2049
Security Group 9						
CA	2,019,022	2.00	SUP/AD	FLX	38381XF50	August 2049
CI	202,002	5.00	NTL (SUP)	FIX/IO	38381XF68	August 2049
CW	505,006	2.50	SUP	FIX	38381XF76	February 2048
CZ	1,000	2.00	SUP	FIX/Z	38381XF84	August 2049
P(1)	15,598,399	2.50	PAC/AD	FIX	38381XF92	August 2049
UF	30,268,291	(5)	PT	FLT	38381XG26	August 2049
US	30,268,291	(5)	NTL (PT)	INV/IO	38381XG34	August 2049
ZU	37,549	2.50	PAC	FIX/Z	38381XG42	August 2049
Residual						
RR	0	0.00	NPR	NPR	38381XG59	August 2049

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

AVAILABLE INFORMATION

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

- this Offering Circular Supplement (this “Supplement”),
- the Base Offering Circular and
- in the case of the Group 6 and 7 securities, each disclosure document relating to the Underlying Certificates (the “Underlying Certificate Disclosure Documents”).

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

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: Morgan Stanley & Co. LLC

Co-Sponsor: Great Pacific Securities

Trustee: U.S. Bank National Association

Tax Administrator: The Trustee

Closing Date: August 30, 2019

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 September 2019.

Trust Assets:

<u>Trust Asset Group</u>	<u>Trust Asset Type</u>	<u>Certificate Rate</u>	<u>Original Term To Maturity (in years)</u>
1	Ginnie Mae II	4.000%	30
2	Ginnie Mae II	4.500%	30
3	Ginnie Mae II	3.500%	30
4	Ginnie Mae II	4.000%	30
5	Ginnie Mae II	4.000%	30
6	Underlying Certificates	(1)	(1)
7	Underlying Certificates	(1)	(1)
8	Ginnie Mae II	4.000%	30
9	Ginnie Mae II	5.000%	30

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

Security Groups: This series of Securities consists of multiple Security Groups (each, a “Group”), as shown on the front cover of this Supplement and on Schedule I to this Supplement. Except in the case of certain MX Classes in Groups 4, 5 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, 2, 3, 4, 5, 8 and 9 Trust Assets⁽¹⁾:

<u>Principal Balance</u>	<u>Weighted Average Remaining Term to Maturity (in months)</u>	<u>Weighted Average Loan Age (in months)</u>	<u>Weighted Average Mortgage Rate⁽²⁾</u>
Group 1 Trust Assets			
\$70,000,000	357	1	4.520%
Group 2 Trust Assets			
\$228,000,000	357	2	4.950%
Group 3 Trust Assets			
\$102,384,933 ⁽³⁾	354	4	4.007%
Group 4 Trust Assets			
\$377,032,058	358	1	4.490%
Group 5 Trust Assets			
\$53,855,334	334	23	4.400%
Group 8 Trust Assets			
\$90,227,125	358	0	4.480%
Group 9 Trust Assets			
\$48,429,267	358	2	5.454%

⁽¹⁾ As of August 1, 2019.

⁽²⁾ The Mortgage Loans underlying the Group 1, 2, 3, 4, 5, 8 and 9 Trust Assets may bear interest at rates ranging from 0.25% to 1.50% per annum above the related Certificate Rate.

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

The actual remaining terms to maturity, loan ages and Mortgage Rates of many of the Mortgage Loans underlying the Group 1, 2, 3, 4, 5, 8 and 9 Trust Assets will differ from the weighted averages shown above perhaps significantly. See “The Trust Assets — The Mortgage Loans” in this Supplement.

Characteristics of the Mortgage Loans Underlying the Group 6 and 7 Trust Assets: See Exhibit A to this Supplement for certain information regarding the characteristics of the Mortgage Loans included in the related Underlying Trusts.

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

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

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

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

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

<u>Class</u>	<u>Interest Rate Formula(1)</u>	<u>Initial Interest Rate(2)</u>	<u>Minimum Rate</u>	<u>Maximum Rate</u>	<u>Delay (in days)</u>	<u>LIBOR for Minimum Interest Rate</u>
Security Group 1						
FA	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
SA	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Group 2						
AF	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
AS	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
FB	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
FP	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
SB	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
SP	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Group 4						
DF	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
DS	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
FD	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
SD	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Group 5						
FE	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
SE	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Group 8						
FG	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
GF	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
GS	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
SG	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Group 9						
UF	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
US	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%
Security Groups 4, 5 and 8						
FY	LIBOR + 0.40%	2.59513%	0.40%	6.50%	0	0.00%
Security Groups 4 and 8						
SY	6.10% – LIBOR	3.90487%	0.00%	6.10%	0	6.10%

- (1) LIBOR will be established on the basis of the ICE LIBOR method, 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 will be allocated, concurrently, to A and FA, pro rata, until retired

SECURITY GROUP 2

The Group 2 Principal Distribution Amount, the PZ Accrual Amount and the Z Accrual Amount will be allocated as follows:

- The PZ Accrual Amount, sequentially, PA and PZ, in that order, until retired
- The Z Accrual Amount in the following order of priority:
 1. To the Group 2 PAC Classes, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - a. 71.4285719765%, sequentially, to PA and PZ, in that order, until retired
 - b. 28.5714280235% to FP, until retired
 2. To Z, until retired
- The Group 2 Principal Distribution Amount, concurrently, as follows:
 1. 20% to AF, until retired
 2. 80% in the following order of priority:
 - a. To the Group 2 PAC Classes, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - i. 71.4285719765%, sequentially, to PA and PZ, in that order, until retired
 - ii. 28.5714280235% to FP, until retired
 - b. To Z, until retired
 - c. To the Group 2 PAC Classes, in the same manner and priority described in step 2.a. above, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 3

The Group 3 Principal Distribution Amount and the ZK Accrual Amount will be allocated as follows:

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

SECURITY GROUP 4

The Group 4 Principal Distribution Amount and the ZD Accrual Amount will be allocated as follows:

- The ZD Accrual Amount in the following order of priority:
 1. To the Group 4 PAC Classes, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - a. 56.0132007684%, sequentially, to MA and MB, in that order, until retired
 - b. 43.9867992316%, concurrently, to DA, DE and DF, pro rata, until retired
 2. To ZD, until retired
- The Group 4 Principal Distribution Amount, concurrently, as follows:
 1. 28.5714285335% to FD, until retired
 2. 71.4285714665% in the following order of priority:
 - a. To the Group 4 PAC Classes, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date, concurrently, as follows:
 - i. 56.0132007684%, sequentially, to MA and MB, in that order, until retired
 - ii. 43.9867992316%, concurrently, to DA, DE and DF, pro rata, until retired
 - b. To ZD, until retired
 - c. To the Group 4 PAC Classes, in the same manner and priority described in step 2.a. above, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 5

The Group 5 Principal Distribution Amount and the ZE Accrual Amount will be allocated as follows:

- The ZE Accrual Amount in the following order of priority:
 1. To EA, until reduced to its Scheduled Principal Balance for that Distribution Date
 2. To ZE, until retired
- The Group 5 Principal Distribution Amount, concurrently, as follows:
 1. 28.5714280409% to FE, until retired
 2. 71.4285719591% in the following order of priority:
 - a. To EA, until reduced to its Scheduled Principal Balance for that Distribution Date
 - b. To ZE, until retired
 - c. To EA, without regard to its Scheduled Principal Balance, until retired

SECURITY GROUP 8

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

- The ZG Accrual Amount in the following order of priority:
 1. Concurrently, to GE and GF, pro rata, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 2. To ZG, until retired

- The Group 8 Principal Distribution Amount, concurrently, as follows:
 1. 28.5714279381% to FG, until retired
 2. 71.4285720619% in the following order of priority:
 - a. Concurrently, to GE and GF, pro rata, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 - b. To ZG, until retired
 - c. Concurrently, to GE and GF, pro rata, without regard to their Aggregate Scheduled Principal Balance, until retired

SECURITY GROUP 9

The Group 9 Principal Distribution Amount, the CZ Accrual Amount and the ZU Accrual Amount will be allocated as follows:

- The CZ Accrual Amount, sequentially, CA and CZ, in that order, until retired
- The ZU Accrual Amount, sequentially, P and ZU, in that order, until retired
- The Group 9 Principal Distribution Amount, concurrently, as follows:
 1. 62.4999981932% to UF, until retired
 2. 37.5000018068% in the following order of priority:
 - a. Sequentially, to P and ZU, in that order, until reduced to their Aggregate Scheduled Principal Balance for that Distribution Date
 - b. To CW, until retired
 - c. Sequentially, to CA and CZ, in that order, until retired
 - d. Sequentially, to P and ZU, in that order, without regard to their Aggregate Scheduled Principal Balance, until retired

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

	Structuring Ranges
PAC Classes	
FP, PA and PZ (in the aggregate)	175% PSA through 300% PSA
KA	125% PSA through 300% PSA
DA, DE, DF, MA and MB (in the aggregate)	250% PSA through 425% PSA
EA	250% PSA through 375% PSA
GE and GF (in the aggregate)	250% PSA through 425% PSA
P and ZU (in the aggregate)	275% PSA through 400% 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 notional balance of the related Trust Asset Group indicated:

<u>Class</u>	<u>Original Class Notional Balance</u>	<u>Represents Approximately</u>
Security Group 1		
SA	\$ 20,000,000	100% of FA (PT Class)
Security Group 2		
AS	\$ 45,600,000	100% of AF (PT Class)
SB	\$ 45,600,000	100% of AF (PT Class)
	<u>44,697,142</u>	100% of FP (PAC/AD Class)
	<u>\$ 90,297,142</u>	
SP	\$ 44,697,142	100% of FP (PAC/AD Class)
Security Group 3		
KI	\$ 22,857,142	28.5714285714% of KA (PAC/AD Class)
Security Group 4		
DS	\$ 24,495,921	100% of DF (PAC/AD Class)
SD	107,723,445	100% of FD (PT Class)
Security Group 5		
EI	\$ 8,356,750	25% of EA (PAC/AD Class)
SE	15,387,238	100% of FE (PT Class)
Security Group 6		
AI	\$118,205,669	100% of the Group 6 Trust Assets
Security Group 7		
BI	\$ 81,120,242	100% of the Group 7 Trust Assets
Security Group 8		
GS	\$ 11,970,222	100% of GF (PAC/AD Class)
SG	25,779,178	100% of FG (PT Class)
Security Group 9		
CI	\$ 201,902	10% of CA (SUP/AD Class)
	<u>100</u>	10% of CZ (SUP Class)
	<u>\$ 202,002</u>	
PI	\$ 3,899,599	25% of P (PAC/AD Class)
US	30,268,291	100% of UF (PT Class)
Security Groups 4 and 8		
SY	\$133,502,623	100% of FD and FG (in the aggregate) (PT Classes)

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

the greater the effect on your yield. It is doubtful that LIBOR will remain constant.

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

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

The rate of payments on the underlying certificates will directly affect the rate of payments on the group 6 and 7 securities. The underlying certificates will be sensitive in varying degrees to:

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

As described in the related underlying certificate disclosure documents, the reductions in notional balances of certain of the underlying certificates

included in trust asset groups 6 and 7 on any payment date are calculated, directly or indirectly, on the basis of schedules; no assurance can be given that the underlying certificates will adhere to their schedules. Further, prepayments on the related mortgage loans may have occurred at rates faster or slower than those initially assumed.

The trust assets underlying one of the underlying certificates included in trust asset group 6 are also previously issued certificates that represent beneficial ownership interests in separate trusts. The rate of payments on the previously issued certificates backing this underlying certificate will directly affect the timing and rate of payments on the group 6 securities. You should read the related underlying certificate disclosure documents, including the risk factors contained therein, to understand the payments on and related risks of the previously issued certificates backing this underlying certificate.

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

Up to 10% of the mortgage loans underlying the group 1, 2, 4, 5, 8 and 9 trust assets and up to 100% of the mortgage loans underlying the group 3, 6 and 7 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 regard-

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

Changes to, or elimination of, LIBOR could adversely affect your investment in the securities. On July 27, 2017, the U.K.-based Financial Conduct Authority (the “FCA”) announced its intention to cease sustaining LIBOR after 2021. The FCA indicated that it does not intend to sustain LIBOR through using its influence or legal powers beyond that date. It is possible that the ICE Benchmark Administration (“IBA”) and the reference banks could continue to produce LIBOR on the current basis after 2021, if they are willing and able to do so, but it cannot be assured that LIBOR will survive in its current form, or at all. In the event IBA ceases to set or publish a rate for LIBOR, the Trustee shall propose a new index for approval by Ginnie Mae based upon comparable information and methodology. The Trustee shall propose an alternative index only if it receives an opinion of counsel that the selection of such alternative index will not cause the related Trust REMIC or REMICs to lose their classification as REMICs for United States federal income tax purposes. The effect of the FCA’s decision not to sustain LIBOR, or, if changes are ultimately made to LIBOR, the effect of those changes, cannot be predicted. In addition, it cannot be predicted what alternative index would be chosen should this occur. If LIBOR in its current form does not survive or if an alternative index is chosen, the market value and/or liquidity of securities with distributions or interest rates based on LIBOR could be adversely affected.

The securities may not be a suitable investment for you. The securities, especially the group 6 and 7 securities and, in particular, the

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

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

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

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

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

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

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

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

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

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

THE TRUST ASSETS

General

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

The Trust MBS (Groups 1, 2, 3, 4, 5, 8 and 9)

The Trust MBS are either:

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

Each Mortgage Loan underlying a Ginnie Mae II MBS Certificate issued prior to July 1, 2003 bears interest at a Mortgage Rate 0.50% to 1.50% per annum greater than the related Certificate Rate. Each 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 (Groups 6 and 7)

The Group 6 and 7 Trust Assets are Underlying Certificates that represent beneficial ownership interests in one or more separate trusts, the assets of which evidence direct or indirect beneficial ownership interests in certain Ginnie Mae Certificates. Each Underlying Certificate constitutes all or a portion of a class of a separate Series of certificates described in the related Underlying Certificate Disclosure Document. Each Underlying Certificate Disclosure Document may be obtained from the Information Agent as described under “Available Information” in this Supplement. 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 table also sets forth information regarding approximate weighted average remaining terms to maturity, loan ages and mortgage rates of the Mortgage Loans underlying the related Ginnie Mae Certificates.

The Mortgage Loans

The Mortgage Loans underlying the Group 1, 2, 3, 4, 5, 8 and 9 Trust Assets are expected to have, on a weighted average basis, the characteristics set forth in the Terms Sheet under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 2, 3, 4, 5, 8 and 9 Trust Assets” and the general characteristics described in the Base Offering Circular. The Mortgage Loans underlying the Underlying Certificates are expected to have, on a weighted average basis, the characteristics set forth in Exhibit A to this Supplement. 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 Certifi-

cated Securities will receive distributions by check or, subject to the restrictions set forth in the Base Offering Circular, by wire transfer. See “Description of the Securities — Distributions” and “— Method of Distributions” in the Base Offering Circular.

Interest Distributions

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

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

Categories of Classes

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

Accrual Periods

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

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

Fixed Rate Classes

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

Floating Rate and Inverse Floating Rate Classes

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

We can provide no assurance that LIBOR for a Distribution Date accurately represents the offered rate at which one-month U.S. dollar deposits are being quoted to prime banks in the London interbank market, nor that the procedures for calculating LIBOR on the basis of the ICE LIBOR method for one-month U.S. dollar deposits will not change. Any change in LIBOR values resulting from any change in reporting or in the determination of LIBOR may cause LIBOR to fluctuate disproportionately to changes in other market lending rates.

The Trustee's determination of LIBOR and its calculation of the Interest Rates will be final except in the case of clear error. Investors can obtain LIBOR levels and Interest Rates for the current and preceding Accrual Periods from Ginnie Mae's Multiclass Securities e-Access located on Ginnie Mae's website or by calling the Information Agent at (800) 234-GNMA.

Accrual Classes

Each of Classes CZ, PZ, Z, ZD, ZE, ZG, ZK and ZU 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 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 Ginnie Mae's website.

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 3, 4 and 12, 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 3, 4 and 12, 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 The Trustee may be contacted by telephone at (917) 260-1522 and by fax at (917) 260-1594. U.S. Bank National Association, One Federal Street, 3rd Floor, Boston, MA 02110, Attention: Ginnie Mae REMIC Program Agency Group 2019-096. 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 $\frac{1}{32}$ 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 6 and 7 Securities are urged to review the discussion under “Risk Factors — The rate of payments on the underlying certificates will directly affect the rate of payments on the group 6 and 7 securities” in this Supplement.

Accretion Directed Classes

Classes CA, DA, DE, DF, EA, FP, GE, GF, KA, MA, MB, P, PA and PZ 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 DS, GS and SP is a Notional Class whose Class Notional Balance is determined by reference to the Class Principal Balance of the related Accretion Directed Class shown under “Terms Sheet — Notional Classes” in this Supplement.

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

Securities that Receive Principal on the Basis of Schedules

As described in this Supplement, each PAC 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 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 Classes are as follows:

	<u>Initial Effective Ranges</u>
PAC Classes	
FP, PA and PZ (in the aggregate)	175% PSA through 300% PSA
KA	125% PSA through 300% PSA
DA, DE, DF, MA and MB (in the aggregate)	250% PSA through 425% PSA
EA	250% PSA through 375% PSA
GE and GF (in the aggregate)	250% PSA through 425% PSA
P and ZU (in the aggregate)	275% PSA through 400% PSA

- The principal payment stability of the PAC Classes will be supported in part by the related Support Class or 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 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 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 Class, the amount available to pay principal on the Securities may be insufficient to produce Scheduled Payments on such related PAC Class, and its Weighted Average Life may be extended, perhaps significantly.

If the related Mortgage Loans prepay at rates that are generally above the Effective Range for any PAC Class, its supporting Class or Classes may be retired earlier than that PAC 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, 2, 3, 4, 5, 8 and 9 Trust Assets have the assumed characteristics shown under “Assumed Characteristics of the Mortgage Loans Underlying the Group 1, 2, 3, 4, 5, 8 and 9 Trust Assets” in the Terms Sheet, except in the case of information set forth under the 0% PSA Prepayment Assumption Rate, for which each Mortgage Loan underlying a Group 1, 2, 3, 4, 5, 8 or 9 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 September 2019.

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

5. The Closing Date for the Securities is August 30, 2019.

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

Security Group 1 PSA Prepayment Assumption Rates					
Classes A, FA and SA					
Distribution Date	0%	200%	445%	700%	900%
Initial Percent	100	100	100	100	100
August 2020	99	95	92	88	85
August 2021	97	86	74	63	54
August 2022	96	75	54	36	25
August 2023	94	65	39	21	11
August 2024	92	56	28	12	5
August 2025	91	48	20	7	2
August 2026	89	41	14	4	1
August 2027	87	35	10	2	0
August 2028	85	30	7	1	0
August 2029	83	26	5	1	0
August 2030	80	22	4	0	0
August 2031	78	19	3	0	0
August 2032	75	16	2	0	0
August 2033	72	13	1	0	0
August 2034	69	11	1	0	0
August 2035	66	9	1	0	0
August 2036	63	8	0	0	0
August 2037	60	6	0	0	0
August 2038	56	5	0	0	0
August 2039	52	4	0	0	0
August 2040	48	3	0	0	0
August 2041	44	3	0	0	0
August 2042	40	2	0	0	0
August 2043	35	2	0	0	0
August 2044	30	1	0	0	0
August 2045	24	1	0	0	0
August 2046	19	1	0	0	0
August 2047	13	0	0	0	0
August 2048	7	0	0	0	0
August 2049	0	0	0	0	0
Weighted Average Life (years)	19.0	7.4	4.1	2.9	2.4

Security Group 2 PSA Prepayment Assumption Rates															
Distribution Date	Classes AF and AS					Classes FB and SB					Classes FP and SP				
	0%	175%	205%	300%	500%	0%	175%	205%	300%	500%	0%	175%	205%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	99	96	95	93	90	98	95	95	94	92	98	94	94	94	94
August 2021	97	87	86	81	70	97	86	85	82	76	96	84	84	84	82
August 2022	96	77	74	65	49	95	74	72	68	53	93	71	71	71	57
August 2023	95	68	64	52	33	93	63	62	56	36	91	59	59	59	39
August 2024	93	59	55	42	23	91	54	52	45	25	88	49	49	49	27
August 2025	91	52	47	34	16	88	46	43	37	17	85	39	39	39	18
August 2026	90	45	40	27	11	86	39	36	29	12	83	32	32	32	13
August 2027	88	40	34	22	7	84	33	30	23	8	79	25	25	25	9
August 2028	86	35	29	17	5	81	27	25	19	5	76	20	20	20	6
August 2029	84	30	25	14	3	78	23	21	15	4	73	16	16	16	4
August 2030	81	26	21	11	2	75	20	17	12	3	69	13	13	13	3
August 2031	79	23	18	9	2	72	16	14	9	2	65	10	10	10	2
August 2032	77	19	15	7	1	69	14	12	7	1	61	8	8	8	1
August 2033	74	17	13	5	1	66	12	10	6	1	57	6	6	6	1
August 2034	71	14	11	4	0	62	10	8	5	1	53	5	5	5	1
August 2035	68	12	9	3	0	58	8	6	4	0	48	4	4	4	0
August 2036	65	10	8	3	0	54	7	5	3	0	43	3	3	3	0
August 2037	61	9	6	2	0	50	6	4	2	0	38	2	2	2	0
August 2038	58	7	5	2	0	45	5	3	2	0	32	2	2	2	0
August 2039	54	6	4	1	0	40	4	3	1	0	26	1	1	1	0
August 2040	50	5	3	1	0	35	3	2	1	0	20	1	1	1	0
August 2041	46	4	3	1	0	30	2	2	1	0	13	1	1	1	0
August 2042	41	3	2	0	0	24	2	1	1	0	6	1	1	1	0
August 2043	36	3	2	0	0	18	1	1	0	0	0	0	0	0	0
August 2044	31	2	1	0	0	16	1	1	0	0	0	0	0	0	0
August 2045	26	1	1	0	0	13	1	1	0	0	0	0	0	0	0
August 2046	20	1	1	0	0	10	1	0	0	0	0	0	0	0	0
August 2047	14	1	0	0	0	7	0	0	0	0	0	0	0	0	0
August 2048	7	0	0	0	0	4	0	0	0	0	0	0	0	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.3	8.0	7.2	5.5	3.7	16.9	7.0	6.6	5.7	3.9	14.5	6.0	6.0	6.0	4.1

**Security Group 2
PSA Prepayment Assumption Rates**

Distribution Date	Class PA					Class PZ					Class Z				
	0%	175%	205%	300%	500%	0%	175%	205%	300%	500%	0%	175%	205%	300%	500%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	98	94	94	94	94	103	103	103	103	103	104	104	101	89	65
August 2021	96	84	84	84	82	106	106	106	106	106	108	108	97	62	0
August 2022	93	71	71	71	56	109	109	109	109	109	113	113	92	30	0
August 2023	91	59	59	59	38	113	113	113	113	113	117	117	90	11	0
August 2024	88	48	48	48	26	116	116	116	116	116	122	122	90	2	0
August 2025	85	39	39	39	18	120	120	120	120	120	127	127	92	0	0
August 2026	82	31	31	31	12	123	123	123	123	123	132	128	92	0	0
August 2027	79	25	25	25	8	127	127	127	127	127	138	126	90	0	0
August 2028	76	19	19	19	5	131	131	131	131	131	143	121	85	0	0
August 2029	72	15	15	15	3	135	135	135	135	135	149	114	79	0	0
August 2030	69	12	12	12	2	139	139	139	139	139	155	106	73	0	0
August 2031	65	9	9	9	1	143	143	143	143	143	161	97	66	0	0
August 2032	61	7	7	7	0	148	148	148	148	148	168	88	59	0	0
August 2033	56	5	5	5	0	152	152	152	152	109	175	80	52	0	0
August 2034	52	4	4	4	0	157	157	157	157	73	182	71	46	0	0
August 2035	47	3	3	3	0	162	162	162	162	49	189	63	40	0	0
August 2036	42	2	2	2	0	166	166	166	166	32	197	55	35	0	0
August 2037	37	1	1	1	0	171	171	171	171	21	205	47	30	0	0
August 2038	31	0	0	0	0	177	177	177	177	14	214	41	25	0	0
August 2039	25	0	0	0	0	182	179	179	179	9	222	35	21	0	0
August 2040	19	0	0	0	0	188	135	135	135	6	231	29	17	0	0
August 2041	12	0	0	0	0	193	100	100	100	4	241	24	14	0	0
August 2042	5	0	0	0	0	199	73	73	73	2	251	19	11	0	0
August 2043	0	0	0	0	0	52	52	52	52	1	252	15	9	0	0
August 2044	0	0	0	0	0	36	36	36	36	1	216	12	7	0	0
August 2045	0	0	0	0	0	24	24	24	24	0	178	9	5	0	0
August 2046	0	0	0	0	0	15	15	15	15	0	138	6	3	0	0
August 2047	0	0	0	0	0	8	8	8	8	0	95	3	2	0	0
August 2048	0	0	0	0	0	3	3	3	3	0	49	1	1	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	14.3	5.8	5.8	5.8	3.9	24.4	22.9	22.9	22.9	15.7	27.1	16.6	14.4	2.5	1.2

**Security Group 3
PSA Prepayment Assumption Rates**

Distribution Date	Classes KA, KB, KC, KD, KE and KI					Class ZK				
	0%	125%	155%	300%	400%	0%	125%	155%	300%	400%
Initial Percent	100	100	100	100	100	100	100	100	100	100
August 2020	97	93	93	93	93	104	104	101	87	77
August 2021	94	83	83	83	83	107	107	99	59	33
August 2022	91	72	72	72	69	111	111	96	31	0
August 2023	88	61	61	61	51	115	115	96	13	0
August 2024	84	51	51	51	38	119	119	96	3	0
August 2025	81	41	41	41	28	123	123	98	0	0
August 2026	77	33	33	33	21	128	126	99	0	0
August 2027	73	26	26	26	15	132	125	97	0	0
August 2028	69	21	21	21	11	137	122	93	0	0
August 2029	64	17	17	17	8	142	117	88	0	0
August 2030	60	13	13	13	6	147	110	82	0	0
August 2031	55	10	10	10	4	152	103	76	0	0
August 2032	50	8	8	8	3	158	95	69	0	0
August 2033	45	6	6	6	2	163	87	62	0	0
August 2034	40	5	5	5	2	169	79	56	0	0
August 2035	34	4	4	4	1	175	71	49	0	0
August 2036	28	3	3	3	1	181	63	43	0	0
August 2037	22	2	2	2	1	188	56	38	0	0
August 2038	15	2	2	2	0	194	49	32	0	0
August 2039	8	1	1	1	0	201	42	28	0	0
August 2040	1	1	1	1	0	208	36	23	0	0
August 2041	1	1	1	1	0	191	30	19	0	0
August 2042	1	1	1	1	0	172	25	16	0	0
August 2043	0	0	0	0	0	151	20	12	0	0
August 2044	0	0	0	0	0	129	16	9	0	0
August 2045	0	0	0	0	0	106	12	7	0	0
August 2046	0	0	0	0	0	82	8	5	0	0
August 2047	0	0	0	0	0	56	4	3	0	0
August 2048	0	0	0	0	0	29	1	1	0	0
August 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	12.3	6.1	6.1	6.1	4.9	25.9	17.6	16.0	2.4	1.6

**Security Group 4
PSA Prepayment Assumption Rates**

Distribution Date	Classes DA, DE, DF and DS					Classes FD and SD					Class MA				
	0%	250%	280%	425%	600%	0%	250%	280%	425%	600%	0%	250%	280%	425%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	98	93	93	93	93	99	95	94	92	89	98	93	93	93	93
August 2021	95	80	80	80	80	97	84	82	75	67	95	79	79	79	79
August 2022	93	63	63	63	51	96	70	68	56	43	93	62	62	62	51
August 2023	90	48	48	48	32	94	59	55	41	27	90	48	48	48	32
August 2024	88	36	36	36	20	92	49	45	30	17	88	35	35	35	20
August 2025	85	26	26	26	13	91	41	37	22	11	85	25	25	25	12
August 2026	82	19	19	19	8	89	34	30	16	7	82	18	18	18	7
August 2027	79	14	14	14	5	87	28	24	11	4	79	13	13	13	4
August 2028	76	10	10	10	3	85	23	19	8	3	75	9	9	9	2
August 2029	72	7	7	7	2	83	19	16	6	2	72	6	6	6	1
August 2030	69	5	5	5	1	80	16	13	4	1	68	4	4	4	0
August 2031	65	4	4	4	1	78	13	10	3	1	65	3	3	3	0
August 2032	61	3	3	3	0	75	10	8	2	0	61	2	2	2	0
August 2033	57	2	2	2	0	72	9	7	2	0	56	1	1	1	0
August 2034	52	1	1	1	0	69	7	5	1	0	52	1	1	1	0
August 2035	48	1	1	1	0	66	6	4	1	0	47	0	0	0	0
August 2036	43	1	1	1	0	63	5	3	1	0	42	0	0	0	0
August 2037	38	0	0	0	0	60	4	3	0	0	37	0	0	0	0
August 2038	32	0	0	0	0	56	3	2	0	0	32	0	0	0	0
August 2039	27	0	0	0	0	52	2	2	0	0	26	0	0	0	0
August 2040	21	0	0	0	0	48	2	1	0	0	20	0	0	0	0
August 2041	15	0	0	0	0	44	1	1	0	0	14	0	0	0	0
August 2042	8	0	0	0	0	40	1	1	0	0	7	0	0	0	0
August 2043	1	0	0	0	0	35	1	0	0	0	0	0	0	0	0
August 2044	0	0	0	0	0	30	1	0	0	0	0	0	0	0	0
August 2045	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
August 2046	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0
August 2047	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0
August 2048	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average															
Life (years)	14.4	4.6	4.6	4.6	3.6	19.0	6.3	5.8	4.2	3.2	14.4	4.5	4.5	4.5	3.5

PSA Prepayment Assumption Rates

Distribution Date	Class MB					Class ZD				
	0%	250%	280%	425%	600%	0%	250%	280%	425%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100
August 2020	100	100	100	100	100	103	103	100	87	71
August 2021	100	100	100	100	100	106	106	97	55	5
August 2022	100	100	100	100	100	109	109	93	20	0
August 2023	100	100	100	100	100	113	113	92	4	0
August 2024	100	100	100	100	100	116	116	93	0	0
August 2025	100	100	100	100	100	120	115	91	0	0
August 2026	100	100	100	100	100	123	109	85	0	0
August 2027	100	100	100	100	100	127	100	77	0	0
August 2028	100	100	100	100	100	131	90	68	0	0
August 2029	100	100	100	100	100	135	79	59	0	0
August 2030	100	100	100	100	100	139	69	51	0	0
August 2031	100	100	100	100	94	143	59	43	0	0
August 2032	100	100	100	100	58	148	50	36	0	0
August 2033	100	100	100	100	36	152	42	30	0	0
August 2034	100	100	100	100	22	157	35	25	0	0
August 2035	100	100	100	100	13	162	29	20	0	0
August 2036	100	88	88	88	8	166	24	16	0	0
August 2037	100	61	61	61	5	171	20	13	0	0
August 2038	100	43	43	43	3	177	16	10	0	0
August 2039	100	30	30	30	2	182	13	8	0	0
August 2040	100	20	20	20	1	188	10	6	0	0
August 2041	100	14	14	14	1	193	8	5	0	0
August 2042	100	9	9	9	0	199	6	4	0	0
August 2043	100	6	6	6	0	205	4	3	0	0
August 2044	4	4	4	4	0	180	3	2	0	0
August 2045	2	2	2	2	0	148	2	1	0	0
August 2046	1	1	1	1	0	114	1	1	0	0
August 2047	1	1	1	1	0	78	1	0	0	0
August 2048	0	0	0	0	0	40	0	0	0	0
August 2049	0	0	0	0	0	0	0	0	0	0
Weighted Average										
Life (years)	24.2	19.3	19.3	19.3	13.9	27.3	13.1	11.7	2.2	1.3

**Security Group 5
PSA Prepayment Assumption Rates**

Distribution Date	Classes EA, EB, EC, ED, EG, EH, EI, EJ and EK					Classes FE and SE					Class ZE				
	0%	250%	280%	375%	600%	0%	250%	280%	375%	600%	0%	250%	280%	375%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	98	81	81	81	75	99	84	83	77	65	103	103	90	50	0
August 2021	96	65	65	65	47	97	70	67	59	41	106	106	84	19	0
August 2022	94	51	51	51	29	96	58	55	45	25	109	109	82	4	0
August 2023	91	39	39	39	18	94	49	45	34	16	113	113	83	0	0
August 2024	89	29	29	29	11	92	40	36	26	10	116	112	82	0	0
August 2025	86	22	22	22	7	91	33	29	19	6	120	107	77	0	0
August 2026	84	17	17	17	4	89	28	24	15	4	123	99	70	0	0
August 2027	81	13	13	13	3	87	23	19	11	2	127	90	63	0	0
August 2028	78	9	9	9	2	85	19	15	8	1	131	80	55	0	0
August 2029	75	7	7	7	1	83	15	12	6	1	135	70	48	0	0
August 2030	71	5	5	5	1	80	13	10	5	1	139	61	41	0	0
August 2031	68	4	4	4	0	78	10	8	3	0	143	52	34	0	0
August 2032	64	3	3	3	0	75	8	6	3	0	148	44	29	0	0
August 2033	60	2	2	2	0	72	7	5	2	0	152	37	24	0	0
August 2034	56	2	2	2	0	69	5	4	1	0	157	31	20	0	0
August 2035	52	1	1	1	0	66	4	3	1	0	162	25	16	0	0
August 2036	48	1	1	1	0	63	3	2	1	0	166	21	13	0	0
August 2037	43	1	1	1	0	60	3	2	1	0	171	17	10	0	0
August 2038	38	0	0	0	0	56	2	1	0	0	177	13	8	0	0
August 2039	33	0	0	0	0	52	2	1	0	0	182	10	6	0	0
August 2040	27	0	0	0	0	48	1	1	0	0	188	8	5	0	0
August 2041	22	0	0	0	0	44	1	1	0	0	193	6	3	0	0
August 2042	15	0	0	0	0	40	1	0	0	0	199	4	2	0	0
August 2043	9	0	0	0	0	35	0	0	0	0	205	3	2	0	0
August 2044	2	0	0	0	0	30	0	0	0	0	212	2	1	0	0
August 2045	0	0	0	0	0	24	0	0	0	0	186	1	1	0	0
August 2046	0	0	0	0	0	19	0	0	0	0	143	0	0	0	0
August 2047	0	0	0	0	0	13	0	0	0	0	98	0	0	0	0
August 2048	0	0	0	0	0	7	0	0	0	0	50	0	0	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	15.3	4.0	4.0	4.0	2.5	19.0	5.3	4.8	3.7	2.2	27.8	12.4	10.0	1.2	0.3

**Security Groups 4 and 5
PSA Prepayment Assumption Rates**

Distribution Date	Class ZY					
	0%	250%	280%	375%	425%	600%
Initial Percent	100	100	100	100	100	100
August 2020	103	103	99	87	81	64
August 2021	106	106	96	64	49	4
August 2022	109	109	92	40	18	0
August 2023	113	113	91	29	3	0
August 2024	116	116	92	26	0	0
August 2025	120	114	89	24	0	0
August 2026	123	108	83	22	0	0
August 2027	127	99	75	19	0	0
August 2028	131	89	67	16	0	0
August 2029	135	78	58	13	0	0
August 2030	139	68	50	11	0	0
August 2031	143	58	42	9	0	0
August 2032	148	50	35	7	0	0
August 2033	152	42	29	6	0	0
August 2034	157	35	24	4	0	0
August 2035	162	29	20	3	0	0
August 2036	166	24	16	3	0	0
August 2037	171	19	13	2	0	0
August 2038	177	15	10	2	0	0
August 2039	182	12	8	1	0	0
August 2040	188	10	6	1	0	0
August 2041	193	8	5	1	0	0
August 2042	199	6	3	0	0	0
August 2043	205	4	3	0	0	0
August 2044	183	3	2	0	0	0
August 2045	152	2	1	0	0	0
August 2046	117	1	1	0	0	0
August 2047	80	1	0	0	0	0
August 2048	41	0	0	0	0	0
August 2049	0	0	0	0	0	0
Weighted Average Life (years)	27.3	13.1	11.5	4.4	2.0	1.2

**Security Group 6
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Class AI</u>				
	<u>0%</u>	<u>200%</u>	<u>358%</u>	<u>600%</u>	<u>800%</u>
Initial Percent	100	100	100	100	100
August 2020	97	82	74	56	40
August 2021	94	65	50	23	6
August 2022	90	51	31	3	0
August 2023	87	38	16	0	0
August 2024	83	27	5	0	0
August 2025	79	18	1	0	0
August 2026	75	10	0	0	0
August 2027	71	5	0	0	0
August 2028	67	2	0	0	0
August 2029	63	1	0	0	0
August 2030	58	0	0	0	0
August 2031	53	0	0	0	0
August 2032	48	0	0	0	0
August 2033	43	0	0	0	0
August 2034	38	0	0	0	0
August 2035	32	0	0	0	0
August 2036	27	0	0	0	0
August 2037	21	0	0	0	0
August 2038	15	0	0	0	0
August 2039	10	0	0	0	0
August 2040	6	0	0	0	0
August 2041	3	0	0	0	0
August 2042	1	0	0	0	0
August 2043	0	0	0	0	0
August 2044	0	0	0	0	0
August 2045	0	0	0	0	0
Weighted Average Life (years)	12.1	3.5	2.3	1.3	0.9

**Security Group 7
PSA Prepayment Assumption Rates**

<u>Distribution Date</u>	<u>Class BI</u>				
	<u>0%</u>	<u>300%</u>	<u>539%</u>	<u>800%</u>	<u>1,100%</u>
Initial Percent	100	100	100	100	100
August 2020	98	81	67	52	35
August 2021	96	65	45	27	12
August 2022	94	52	30	14	4
August 2023	92	42	20	7	1
August 2024	90	33	13	4	0
August 2025	87	27	9	2	0
August 2026	85	21	6	1	0
August 2027	82	17	4	0	0
August 2028	80	13	2	0	0
August 2029	77	11	2	0	0
August 2030	74	8	1	0	0
August 2031	71	7	1	0	0
August 2032	68	5	0	0	0
August 2033	64	4	0	0	0
August 2034	61	3	0	0	0
August 2035	57	2	0	0	0
August 2036	53	2	0	0	0
August 2037	49	1	0	0	0
August 2038	45	1	0	0	0
August 2039	41	1	0	0	0
August 2040	36	1	0	0	0
August 2041	32	0	0	0	0
August 2042	27	0	0	0	0
August 2043	22	0	0	0	0
August 2044	16	0	0	0	0
August 2045	10	0	0	0	0
August 2046	5	0	0	0	0
August 2047	0	0	0	0	0
August 2048	0	0	0	0	0
Weighted Average Life (years)	16.6	4.5	2.5	1.5	1.0

**Security Group 8
PSA Prepayment Assumption Rates**

Distribution Date	Classes FG and SG					Classes GA, GB, GC, GD, GE, GF and GS					Class ZG				
	0%	250%	280%	425%	600%	0%	250%	280%	425%	600%	0%	250%	280%	425%	600%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	99	95	95	93	91	98	94	94	94	94	103	103	101	89	75
August 2021	97	85	83	77	69	95	81	81	81	81	106	106	98	58	11
August 2022	96	71	69	57	44	93	64	64	64	53	109	109	94	22	0
August 2023	94	59	56	42	28	90	49	49	49	33	113	113	92	4	0
August 2024	92	49	46	30	17	88	36	36	36	21	116	116	93	0	0
August 2025	91	41	37	22	11	85	26	26	26	13	120	115	91	0	0
August 2026	89	34	30	16	7	82	19	19	19	8	123	110	86	0	0
August 2027	87	28	24	12	4	79	14	14	14	5	127	101	78	0	0
August 2028	85	23	20	8	3	76	10	10	10	3	131	91	69	0	0
August 2029	83	19	16	6	2	72	7	7	7	2	135	80	60	0	0
August 2030	80	16	13	4	1	69	5	5	5	1	139	70	51	0	0
August 2031	78	13	10	3	1	65	4	4	4	1	143	60	44	0	0
August 2032	75	11	8	2	0	61	3	3	3	0	148	51	37	0	0
August 2033	72	9	7	2	0	57	2	2	2	0	152	43	30	0	0
August 2034	69	7	5	1	0	52	1	1	1	0	157	36	25	0	0
August 2035	66	6	4	1	0	48	1	1	1	0	162	30	20	0	0
August 2036	63	5	3	1	0	43	1	1	1	0	166	24	16	0	0
August 2037	60	4	3	0	0	38	0	0	0	0	171	20	13	0	0
August 2038	56	3	2	0	0	32	0	0	0	0	177	16	10	0	0
August 2039	52	2	2	0	0	27	0	0	0	0	182	13	8	0	0
August 2040	48	2	1	0	0	21	0	0	0	0	188	10	6	0	0
August 2041	44	1	1	0	0	15	0	0	0	0	193	8	5	0	0
August 2042	40	1	1	0	0	8	0	0	0	0	199	6	4	0	0
August 2043	35	1	0	0	0	1	0	0	0	0	205	4	3	0	0
August 2044	30	1	0	0	0	0	0	0	0	0	181	3	2	0	0
August 2045	24	0	0	0	0	0	0	0	0	0	149	2	1	0	0
August 2046	19	0	0	0	0	0	0	0	0	0	114	1	1	0	0
August 2047	13	0	0	0	0	0	0	0	0	0	78	1	0	0	0
August 2048	7	0	0	0	0	0	0	0	0	0	40	0	0	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	19.0	6.4	5.9	4.3	3.3	14.5	4.7	4.7	4.7	3.7	27.3	13.2	11.7	2.3	1.4

**Security Groups 4 and 8
PSA Prepayment Assumption Rates**

Distribution Date	Class SY				
	0%	250%	280%	425%	600%
Initial Percent	100	100	100	100	100
August 2020	99	95	94	92	90
August 2021	97	84	83	76	68
August 2022	96	71	68	56	43
August 2023	94	59	55	41	27
August 2024	92	49	45	30	17
August 2025	91	41	37	22	11
August 2026	89	34	30	16	7
August 2027	87	28	24	11	4
August 2028	85	23	20	8	3
August 2029	83	19	16	6	2
August 2030	80	16	13	4	1
August 2031	78	13	10	3	1
August 2032	75	11	8	2	0
August 2033	72	9	7	2	0
August 2034	69	7	5	1	0
August 2035	66	6	4	1	0
August 2036	63	5	3	1	0
August 2037	60	4	3	0	0
August 2038	56	3	2	0	0
August 2039	52	2	2	0	0
August 2040	48	2	1	0	0
August 2041	44	1	1	0	0
August 2042	40	1	1	0	0
August 2043	35	1	0	0	0
August 2044	30	1	0	0	0
August 2045	24	0	0	0	0
August 2046	19	0	0	0	0
August 2047	13	0	0	0	0
August 2048	7	0	0	0	0
August 2049	0	0	0	0	0
Weighted Average Life (years)	19.0	6.3	5.8	4.2	3.2

**Security Groups 4, 5 and 8
PSA Prepayment Assumption Rates**

Distribution Date	Class FY					
	0%	250%	280%	375%	425%	600%
Initial Percent	100	100	100	100	100	100
August 2020	98	92	91	90	89	85
August 2021	97	79	78	74	73	66
August 2022	95	65	63	58	55	43
August 2023	93	53	50	44	41	27
August 2024	91	42	40	33	30	17
August 2025	89	34	31	25	22	10
August 2026	86	27	24	18	16	7
August 2027	84	21	19	14	12	4
August 2028	81	17	15	10	8	3
August 2029	79	14	12	7	6	2
August 2030	76	11	9	6	4	1
August 2031	73	9	7	4	3	1
August 2032	70	7	6	3	2	0
August 2033	67	6	4	2	2	0
August 2034	63	5	3	2	1	0
August 2035	59	4	3	1	1	0
August 2036	56	3	2	1	1	0
August 2037	52	2	2	1	0	0
August 2038	47	2	1	0	0	0
August 2039	43	1	1	0	0	0
August 2040	38	1	1	0	0	0
August 2041	33	1	1	0	0	0
August 2042	28	1	0	0	0	0
August 2043	22	0	0	0	0	0
August 2044	19	0	0	0	0	0
August 2045	15	0	0	0	0	0
August 2046	12	0	0	0	0	0
August 2047	8	0	0	0	0	0
August 2048	4	0	0	0	0	0
August 2049	0	0	0	0	0	0
Weighted Average Life (years)	17.3	5.5	5.2	4.4	4.2	3.2

**Security Group 9
PSA Prepayment Assumption Rates**

Distribution Date	Class CA					Class CI					Class CW					Class CZ				
	0%	275%	305%	400%	700%	0%	275%	305%	400%	700%	0%	275%	305%	400%	700%	0%	275%	305%	400%	700%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	100	100	100	100	60	100	100	100	100	60	100	100	82	24	0	102	102	102	102	102
August 2021	100	100	100	66	0	100	100	100	66	0	100	100	43	0	0	104	104	104	104	0
August 2022	100	100	100	27	0	100	100	100	27	0	100	100	3	0	0	106	106	106	106	0
August 2023	100	100	95	7	0	100	100	95	7	0	100	100	0	0	0	108	108	108	108	0
August 2024	100	100	92	0	0	100	100	92	0	0	100	100	0	0	0	111	111	111	111	0
August 2025	100	100	89	0	0	100	100	89	0	0	100	92	0	0	0	113	113	113	0	0
August 2026	100	100	83	0	0	100	100	83	0	0	100	65	0	0	0	115	115	115	0	0
August 2027	100	100	75	0	0	100	100	75	0	0	100	26	0	0	0	117	117	117	0	0
August 2028	100	95	67	0	0	100	95	67	0	0	100	0	0	0	0	120	120	120	0	0
August 2029	100	84	58	0	0	100	84	58	0	0	100	0	0	0	0	122	122	122	0	0
August 2030	100	73	49	0	0	100	73	49	0	0	100	0	0	0	0	125	125	125	0	0
August 2031	100	62	42	0	0	100	62	42	0	0	100	0	0	0	0	127	127	127	0	0
August 2032	100	53	35	0	0	100	53	35	0	0	100	0	0	0	0	130	130	130	0	0
August 2033	100	44	29	0	0	100	44	29	0	0	100	0	0	0	0	132	132	132	0	0
August 2034	100	37	24	0	0	100	37	24	0	0	100	0	0	0	0	135	135	135	0	0
August 2035	100	30	19	0	0	100	30	19	0	0	100	0	0	0	0	138	138	138	0	0
August 2036	100	25	15	0	0	100	25	15	0	0	100	0	0	0	0	140	140	140	0	0
August 2037	100	20	12	0	0	100	20	12	0	0	100	0	0	0	0	143	143	143	0	0
August 2038	100	16	10	0	0	100	16	10	0	0	100	0	0	0	0	146	146	146	0	0
August 2039	100	13	7	0	0	100	13	8	0	0	100	0	0	0	0	149	149	149	0	0
August 2040	100	10	6	0	0	100	10	6	0	0	100	0	0	0	0	152	152	152	0	0
August 2041	100	8	4	0	0	100	8	4	0	0	100	0	0	0	0	155	155	155	0	0
August 2042	100	6	3	0	0	100	6	3	0	0	100	0	0	0	0	158	158	158	0	0
August 2043	100	4	2	0	0	100	4	2	0	0	100	0	0	0	0	162	162	162	0	0
August 2044	100	3	2	0	0	100	3	2	0	0	100	0	0	0	0	165	165	165	0	0
August 2045	100	2	1	0	0	100	2	1	0	0	100	0	0	0	0	168	168	168	0	0
August 2046	100	1	1	0	0	100	1	1	0	0	100	0	0	0	0	172	172	172	0	0
August 2047	100	1	0	0	0	100	1	0	0	0	100	0	0	0	0	175	175	175	0	0
August 2048	66	0	0	0	0	66	0	0	0	0	0	0	0	0	0	179	179	179	0	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	29.2	14.4	11.7	2.5	1.1	29.3	14.4	11.7	2.5	1.1	28.3	7.3	1.8	0.7	0.3	30.0	29.7	29.6	5.2	1.6

**Security Group 9
PSA Prepayment Assumption Rates**

Distribution Date	Classes P, PB, PC, PD, PE, PG, PH, PI, PJ, PK and UA					Classes UF and US					Class ZU				
	0%	275%	305%	400%	700%	0%	275%	305%	400%	700%	0%	275%	305%	400%	700%
Initial Percent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
August 2020	99	93	93	93	93	99	94	93	92	87	103	103	103	103	103
August 2021	97	79	79	79	71	98	82	81	76	61	105	105	105	105	105
August 2022	96	62	62	62	41	96	68	65	57	35	108	108	108	108	108
August 2023	94	48	48	48	23	95	56	52	42	20	111	111	111	111	111
August 2024	93	37	37	37	13	94	46	42	32	11	113	113	113	113	113
August 2025	91	27	27	27	7	92	37	34	24	6	116	116	116	116	116
August 2026	89	20	20	20	4	90	31	27	18	4	119	119	119	119	119
August 2027	87	15	15	15	2	89	25	21	13	2	122	122	122	122	122
August 2028	85	11	11	11	1	87	20	17	10	1	125	125	125	125	125
August 2029	82	8	8	8	0	85	16	14	7	1	128	128	128	128	128
August 2030	80	6	6	6	0	83	13	11	5	0	132	132	132	132	132
August 2031	77	4	4	4	0	80	11	9	4	0	135	135	135	135	102
August 2032	74	3	3	3	0	78	9	7	3	0	138	138	138	138	57
August 2033	71	2	2	2	0	75	7	5	2	0	142	142	142	142	32
August 2034	68	1	1	1	0	73	6	4	2	0	145	145	145	145	18
August 2035	64	1	1	1	0	70	4	3	1	0	149	149	149	149	10
August 2036	61	1	1	1	0	66	4	3	1	0	153	153	153	153	5
August 2037	57	0	0	0	0	63	3	2	1	0	157	157	157	157	3
August 2038	53	0	0	0	0	59	2	1	0	0	161	161	161	161	2
August 2039	48	0	0	0	0	56	2	1	0	0	165	140	140	140	1
August 2040	43	0	0	0	0	52	1	1	0	0	169	98	98	98	0
August 2041	38	0	0	0	0	47	1	1	0	0	173	68	68	68	0
August 2042	33	0	0	0	0	43	1	0	0	0	178	46	46	46	0
August 2043	27	0	0	0	0	38	1	0	0	0	182	31	31	31	0
August 2044	21	0	0	0	0	32	0	0	0	0	187	20	20	20	0
August 2045	14	0	0	0	0	27	0	0	0	0	191	12	12	12	0
August 2046	7	0	0	0	0	21	0	0	0	0	196	7	7	7	0
August 2047	0	0	0	0	0	14	0	0	0	0	138	4	4	4	0
August 2048	0	0	0	0	0	7	0	0	0	0	1	1	1	1	0
August 2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Average Life (years)	18.0	4.7	4.7	4.7	3.1	19.6	5.9	5.5	4.4	2.8	28.0	22.1	22.1	22.1	13.3

Yield Considerations

An investor seeking to maximize yield should make a decision whether to invest in any Regular or MX Class based on the anticipated yield of that Class resulting from its purchase price, the investor's own projection of Mortgage Loan prepayment rates under a variety of scenarios, in the case of the Group 6 and 7 Securities, the investor's own projection of payment rates on the Underlying Certificates under a variety of scenarios and, in the case of a Floating Rate or an Inverse Floating Rate Class, the investor's own projection of levels of LIBOR under a variety of scenarios. **No representation is made regarding Mortgage Loan prepayment rates, Underlying Certificate payment rates, LIBOR levels or the yield of any Class.**

Prepayments: Effect on Yields

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

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

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

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

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

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

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

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

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

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

Payment Delay: Effect on Yields of the Fixed Rate 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 shows the pre-tax yields to maturity on a corporate bond equivalent basis of specified Classes at various constant percentages of PSA and, in the case of the Inverse Floating Rate Classes, at various constant levels of LIBOR.

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

The yields were calculated by

1. determining the monthly discount rates that, when applied to the applicable assumed streams of cash flows to be paid on the applicable Class, would cause the discounted present value of

the assumed streams of cash flows to equal the assumed purchase price of that Class plus accrued interest, and

2. converting the monthly rates to corporate bond equivalent rates.

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

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

SECURITY GROUP 1

**Sensitivity of Class SA to Prepayments
Assumed Price 14.59375%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>200%</u>	<u>445%</u>	<u>700%</u>	<u>900%</u>
1.00000%	25.4%	13.0%	(0.3)%	(11.0)%
2.19513%	15.7%	2.8%	(11.3)%	(22.7)%
4.14757%	(0.1)%	(14.2)%	(29.8)%	(42.8)%
6.10000% and above	**	**	**	**

SECURITY GROUP 2

**Sensitivity of Class AS to Prepayments
Assumed Price 14.90625%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>175%</u>	<u>205%</u>	<u>300%</u>	<u>500%</u>
1.00000%	25.6%	24.1%	19.2%	8.6%
2.19513%	16.3%	14.7%	9.6%	(1.4)%
4.14757%	0.9%	(0.8)%	(6.2)%	(18.1)%
6.10000% and above	**	**	**	**

**Sensitivity of Class SB to Prepayments
Assumed Price 15.86531%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>175%</u>	<u>205%</u>	<u>300%</u>	<u>500%</u>
1.00000%	21.3%	20.4%	17.9%	8.1%
2.19513%	12.4%	11.5%	8.8%	(1.7)%
4.14757%	(2.3)%	(3.4)%	(6.4)%	(18.1)%
6.10000% and above	**	**	**	**

**Sensitivity of Class SP to Prepayments
Assumed Price 16.84375%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>175%</u>	<u>205%</u>	<u>300%</u>	<u>500%</u>
1.00000%	16.7%	16.7%	16.7%	7.6%
2.19513%	8.1%	8.1%	8.1%	(1.9)%
4.14757%	(6.6)%	(6.6)%	(6.6)%	(18.0)%
6.10000% and above	**	**	**	**

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

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

SECURITY GROUP 3

**Sensitivity of Class KI to Prepayments
Assumed Price 7.25%***

PSA Prepayment Assumption Rates				
125%	155%	300%	400%	1,104%
38.0%	38.0%	38.0%	35.0%	0.0%

SECURITY GROUP 4

**Sensitivity of Class DS to Prepayments
Assumed Price 18.71875%***

LIBOR	PSA Prepayment Assumption Rates			
	250%	280%	425%	600%
1.00000%	7.2%	7.2%	7.2%	(0.9)%
2.19513%	(1.0)%	(1.0)%	(1.0)%	(9.9)%
4.14757%	(15.1)%	(15.1)%	(15.1)%	(25.4)%
6.10000% and above	**	**	**	**

**Sensitivity of Class SD to Prepayments
Assumed Price 17.34375%***

LIBOR	PSA Prepayment Assumption Rates			
	250%	280%	425%	600%
1.00000%	16.2%	14.7%	7.1%	(2.3)%
2.19513%	8.1%	6.4%	(1.5)%	(11.3)%
4.14757%	(5.6)%	(7.4)%	(15.8)%	(26.6)%
6.10000% and above	**	**	**	**

SECURITY GROUP 5

**Sensitivity of Class EI to Prepayments
Assumed Price 14.1875%***

PSA Prepayment Assumption Rates				
250%	280%	375%	424%	600%
3.2%	3.2%	3.2%	0.1%	(13.6)%

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

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

Sensitivity of Class SE to Prepayments
Assumed Price 15.5625%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>280%</u>	<u>375%</u>	<u>600%</u>
1.00000%	14.8%	12.6%	5.5%	(12.5)%
2.19513%	6.7%	4.6%	(2.4)%	(19.8)%
4.14757%	(6.9)%	(8.9)%	(15.4)%	(32.0)%
6.10000% and above	**	**	**	**

SECURITY GROUP 6

Sensitivity of Class AI to Prepayments
Assumed Price 4.214844%*

<u>PSA Prepayment Assumption Rates</u>				
<u>200%</u>	<u>358%</u>	<u>600%</u>	<u>624%</u>	<u>800%</u>
64.5%	46.3%	4.7%	0.1%	(34.9)%

SECURITY GROUP 7

Sensitivity of Class BI to Prepayments
Assumed Price 8.681981%*

<u>PSA Prepayment Assumption Rates</u>				
<u>300%</u>	<u>539%</u>	<u>591%</u>	<u>800%</u>	<u>1,100%</u>
24.3%	4.6%	0.0%	(19.6)%	(52.4)%

SECURITY GROUP 8

Sensitivity of Class GS to Prepayments
Assumed Price 18.1875%*

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>280%</u>	<u>425%</u>	<u>600%</u>
1.00000%	8.7%	8.7%	8.7%	1.0%
2.19513%	0.2%	0.2%	0.2%	(8.3)%
4.14757%	(14.4)%	(14.4)%	(14.4)%	(24.4)%
6.10000% and above	**	**	**	**

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

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

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

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>280%</u>	<u>425%</u>	<u>600%</u>
1.00000%	14.3%	12.8%	5.3%	(3.9)%
2.19513%	6.6%	5.0%	(2.8)%	(12.5)%
4.14757%	(6.4)%	(8.1)%	(16.5)%	(27.1)%
6.10000% and above	**	**	**	**

SECURITY GROUPS 4 AND 8

**Sensitivity of Class SY to Prepayments
Assumed Price 17.491373%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>250%</u>	<u>280%</u>	<u>425%</u>	<u>600%</u>
1.00000%	16.0%	14.4%	6.9%	(2.5)%
2.19513%	7.9%	6.3%	(1.6)%	(11.4)%
4.14757%	(5.7)%	(7.5)%	(15.9)%	(26.6)%
6.10000% and above	**	**	**	**

SECURITY GROUP 9

**Sensitivity of Class CI to Prepayments
Assumed Price 10.0%***

<u>PSA Prepayment Assumption Rates</u>				
<u>275%</u>	<u>305%</u>	<u>400%</u>	<u>431%</u>	<u>700%</u>
53.7%	52.4%	15.4%	0.4%	(74.9)%

**Sensitivity of Class PI to Prepayments
Assumed Price 11.3125%***

<u>PSA Prepayment Assumption Rates</u>				
<u>275%</u>	<u>305%</u>	<u>400%</u>	<u>700%</u>	<u>1,002%</u>
28.2%	28.2%	28.2%	15.4%	0.0%

**Sensitivity of Class US to Prepayments
Assumed Price 14.0%***

<u>LIBOR</u>	<u>PSA Prepayment Assumption Rates</u>			
	<u>275%</u>	<u>305%</u>	<u>400%</u>	<u>700%</u>
1.00000%	23.3%	21.8%	16.8%	0.7%
2.19513%	13.2%	11.6%	6.4%	(10.5)%
4.14757%	(3.5)%	(5.3)%	(10.8)%	(29.4)%
6.10000% 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 Cleary Gottlieb Steen & Hamilton 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	445%
2	205%
3	155%
4, 5 and 8	280%
6	358%
7	539%
9	305%

In the case of the Floating Rate Classes, the interest rate values to be used for these determinations are the initial Interest Rates as set forth in the Terms Sheet under “Interest Rates.” No representation is made, however, about the rate at which prepayments on the Mortgage Loans underlying any Group of Trust Assets actually will occur or the level of LIBOR at any time after the date of this Supplement. See “*Certain United States Federal Income Tax Consequences*” in the Base Offering Circular.

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

A Holder of Regular Securities that uses an accrual method of accounting for tax purposes generally will be required to include certain amounts in income no later than the time such amounts are reflected on certain financial statements. The application of this rule thus may require the accrual of income earlier than would be the case under the general tax rules described under “Certain United States Federal Income Tax Consequences — Tax Treatment of Regular Securities” in the Base Offering Circular, although the precise application of this rule is unclear at this time. This rule generally will be effective for Regular Securities issued with original issue discount, for tax years beginning after December 31, 2018. The Service issued Notice 2018-80 stating its intention to issue regulations that would exclude market discount from this rule. Prospective investors in Regular Securities that use an accrual method of accounting for tax purposes are urged to consult with their tax advisors regarding the potential applicability of this legislation to their particular situation.

In the case of any Trust REMIC that is considered to be a “single-class REMIC” under temporary Treasury regulations, certain fees and expenses of the single-class REMIC would be allocated proportionately among the Regular Securities and Residual Securities of such Trust REMIC. An individual, trust or estate that holds Regular Securities in a single-class REMIC (directly or indirectly through a grantor trust, a partnership, an S corporation, a common trust fund, or a nonpublicly offered RIC) generally will not be eligible to deduct its allocable share of fees or expenses of a single-class REMIC under Section 212 of the Code for any taxable year beginning before January 1, 2026. For a discussion of single-class REMICs, see “Certain United States Federal Income Tax Consequences — Tax Treatment of Regular Securities — Single Class REMICs” in the Base Offering Circular, as modified by the previous sentence. Prospective investors in the Regular Securities are urged to consult with their tax advisors regarding the potential applicability of these rules to their particular situation.

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.

An individual, trust or estate that holds Residual Securities (directly or indirectly through a grantor trust, a partnership, an S corporation, a common trust fund, or a nonpublicly offered RIC) generally will not be eligible to deduct its allocable share of the Trust REMICs’ fees or expenses under Section 212 of the Code for any taxable year beginning before January 1, 2026. Prospective investors in Residual Securities are urged to consult with their tax advisors regarding the potential applicability of this legislation to their particular situation.

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.

In the case of certain Holders of MX Securities that use an accrual method of accounting, these tax consequences are modified by newly enacted legislation as described above for a Holder of Regular Securities. Prospective investors in MX Securities that use an accrual method of accounting for tax purposes are urged to consult with their tax advisors regarding the potential applicability of this legislation to their particular situation.

Foreign Account Tax Compliance Act

The Service has issued proposed regulations, on which taxpayers may rely, that exclude gross proceeds from the sale or other disposition of Regular or MX Securities from the application of the withholding tax imposed under FATCA and related administrative guidance. For a discussion of FATCA, see “*Certain United States Federal Income Tax Consequences — 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.

Governmental plans and certain church plans, while not subject to the fiduciary responsibility provisions of ERISA or the prohibited transaction provisions of ERISA and the Code, may nevertheless be subject to local, state or other federal laws that are substantially similar to the foregoing provisions of ERISA and the Code.

Fiduciaries of any such plans should consult with their counsel before purchasing any of the Securities. In addition, because the Sponsor or the Co-Sponsor or any of their respective affiliates may receive certain benefits in connection with the sale or holding of the Regular or MX Securities, the purchase of the Regular or MX Securities using Plan assets over which any of these parties or their affiliates has discretionary authority or control, or renders “investment advice” (within the meaning of a Department of Labor regulation) for a fee with respect to the assets of a Plan, or is the employer or other sponsor of the Plan, might be deemed to be a violation of a provision of Title I of ERISA or Section 4975 of the Code. Accordingly, the Regular or MX Securities may not be purchased using the assets of any Plan if the Sponsor or the Co-Sponsor or any of their respective affiliates has discretionary authority or control or renders investment advice for a fee with respect to the assets of the Plan, or is the employer or other sponsor of the Plan, unless an applicable prohibited transaction exemption is available to cover the purchase or holding of the Regular or MX Securities or the transaction is not otherwise prohibited.

Prospective Plan Investors should consult with their advisors, however, 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.

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) August 1, 2019 on the Fixed Rate Classes and (2) August 20, 2019 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 Supple-

ment, 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 Cleary Gottlieb Steen & Hamilton LLP and Marcell Solomon & Associates, P.C., and for the Trustee by Nixon Peabody LLP.

Schedule I

Available Combinations(1)

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 2								
Combination 1								
AF	\$ 45,600,000	FB	\$ 90,297,142	PT/PAC/AD	(5)	FLT	38381XG67	August 2049
FP	44,697,142							
Combination 2								
AS	\$ 45,600,000	SB	\$ 90,297,142	NTL(PT/PAC/AD)	(5)	INV/IO	38381XG75	August 2049
SP	44,697,142							
Security Group 3								
Combination 3(6)								
KA	\$ 80,000,000	KB	\$ 80,000,000	PAC/AD	2.50%	FIX	38381XG83	August 2049
		KC	80,000,000	PAC/AD	2.75	FIX	38381XG91	August 2049
		KD	80,000,000	PAC/AD	3.00	FIX	38381XH25	August 2049
		KE	80,000,000	PAC/AD	3.25	FIX	38381XH33	August 2049
		KI	22,857,142	NTL(PAC/AD)	3.50	FIX/IO	38381XH41	August 2049
Security Group 5								
Combination 4(6)								
EA	\$ 33,427,000	EB	\$ 33,427,000	PAC/AD	2.75%	FIX	38381XH58	August 2049
		EC	33,427,000	PAC/AD	2.50	FIX	38381XH66	August 2049
		ED	33,427,000	PAC/AD	2.25	FIX	38381XH74	August 2049
		EG	33,427,000	PAC/AD	2.00	FIX	38381XH82	August 2049
		EH	22,284,666	PAC/AD	3.50	FIX	38381XH90	August 2049
		EI	8,356,750	NTL(PAC/AD)	4.00	FIX/IO	38381XJ23	August 2049
		EJ	16,713,500	PAC/AD	4.00	FIX	38381XJ31	August 2049
		EK	13,370,800	PAC/AD	4.50	FIX	38381XJ49	August 2049
Security Groups 4 and 5								
Combination 5(7)								
ZD	\$ 44,412,613	ZY	\$ 49,453,709	SUP	3.00%	FIX/Z	38381XJ56	August 2049
ZE	5,041,096							

REMIC Securities			MX Securities					
Class	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 8								
Combination 6								
GE	\$ 41,895,778	GA	\$ 53,866,000	PAC/AD	3.00%	FIX	38381XJ64	August 2049
GF	11,970,222							
GS	11,970,222							
Combination 7								
GE	\$ 41,895,778	GB	\$ 50,274,934	PAC/AD	2.75%	FIX	38381XJ72	August 2049
GF	8,379,156							
GS	8,379,156							
Combination 8								
GE	\$ 41,895,778	GC	\$ 47,132,751	PAC/AD	2.50%	FIX	38381XJ80	August 2049
GF	5,236,973							
GS	5,236,973							
Combination 9								
GE	\$ 41,895,778	GD	\$ 44,360,236	PAC/AD	2.25%	FIX	38381XJ98	August 2049
GF	2,464,458							
GS	2,464,458							
Security Groups 4, 5 and 8								
Combination 10(7)								
DF	\$ 24,495,921	FY	\$ 65,662,337	PT/PAC/AD	(5)	FLT	38381XK21	August 2049
FE	15,387,238							
FG	25,779,178							
Security Groups 4 and 8								
Combination 11(7)								
SD	\$107,723,445	SY	\$133,502,623	NTL(PT)	(5)	INV/IO	38381XK39	August 2049
SG	25,779,178							

REMIC Securities

MX Securities

Class	REMIC Securities		MX Securities					
	Original Class Principal Balance or Class Notional Balance	Related MX Class	Maximum Original Class Principal Balance or Class Notional Balance(2)	Principal Type(3)	Interest Rate	Interest Type(3)	CUSIP Number	Final Distribution Date(4)
Security Group 9								
Combination 12(6)								
P	\$ 15,598,399	PB	\$ 15,598,399	PAC/AD	1.50%	FIX	38381XK47	August 2049
		PC	15,598,399	PAC/AD	1.75	FIX	38381XK54	August 2049
		PD	15,598,399	PAC/AD	2.00	FIX	38381XK62	August 2049
		PE	15,598,399	PAC/AD	2.25	FIX	38381XK70	August 2049
		PG	12,998,665	PAC/AD	2.75	FIX	38381XK88	August 2049
		PH	11,141,713	PAC/AD	3.00	FIX	38381XK96	August 2049
		PI	3,899,599	NTL(PAC/AD)	5.00	FIX/IO	38381XL20	August 2049
		PJ	9,748,999	PAC/AD	3.25	FIX	38381XL38	August 2049
		PK	8,665,777	PAC/AD	3.50	FIX	38381XL46	August 2049
		UA	15,598,399	PAC/AD	1.25	FIX	38381XL53	August 2049

(1) All exchanges must comply with minimum denomination restrictions.

(2) The amount shown for each MX Class represents the maximum Original Class Principal Balance (or original Class Notional Balance) of that Class, assuming it were to be issued on the Closing Date.

(3) As defined under “Class Types” in Appendix I to the Base Offering Circular.

(4) See “Yield, Maturity and Prepayment Considerations — Final Distribution Date” in this Supplement.

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

(6) In the case of Combinations 3, 4 and 12, various subcombinations are permitted. See “Description of the Securities — Modification and Exchange” in the Base Offering Circular for a discussion of subcombinations.

(7) Derived from REMIC Classes relating to separate groups.

Schedule II

SCHEDULED PRINCIPAL BALANCES

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
Initial Balance	\$156,440,000.00	\$80,000,000.00	\$224,896,000.00
September 2019	155,968,526.38	79,675,972.55	224,200,913.58
October 2019	155,442,750.23	79,330,163.19	223,391,882.54
November 2019	154,862,867.45	78,962,693.80	222,469,213.19
December 2019	154,229,122.40	78,573,700.16	221,433,356.32
January 2020	153,541,807.81	78,163,331.89	220,284,907.41
February 2020	152,801,264.62	77,731,752.35	219,024,606.58
March 2020	152,007,881.80	77,279,138.52	217,653,338.31
April 2020	151,162,096.02	76,805,680.90	216,172,130.76
May 2020	150,264,391.30	76,311,583.29	214,582,154.80
June 2020	149,315,298.57	75,797,062.72	212,884,722.78
July 2020	148,315,395.19	75,262,349.23	211,081,286.97
August 2020	147,265,304.33	74,707,685.69	209,173,437.61
September 2020	146,165,694.35	74,133,327.58	207,162,900.84
October 2020	145,017,278.07	73,539,542.81	205,051,536.10
November 2020	143,820,811.98	72,926,611.46	202,841,333.43
December 2020	142,577,095.37	72,294,825.57	200,534,410.34
January 2021	141,286,969.43	71,644,488.83	198,133,008.48
February 2021	139,951,316.26	70,975,916.36	195,639,489.95
March 2021	138,571,057.79	70,289,434.40	193,056,333.40
April 2021	137,147,154.68	69,585,380.06	190,386,129.84
May 2021	135,680,605.15	68,864,100.93	187,631,578.16
June 2021	134,172,443.72	68,125,954.84	184,795,480.48
July 2021	132,623,739.94	67,371,309.50	181,880,737.18
August 2021	131,035,597.05	66,600,542.17	178,890,341.75
September 2021	129,409,150.54	65,814,039.28	175,827,375.43
October 2021	127,745,566.76	65,012,196.13	172,695,001.62
November 2021	126,046,041.36	64,215,358.20	169,496,460.15
December 2021	124,311,797.80	63,423,489.66	166,235,061.34
January 2022	122,593,442.65	62,636,554.91	162,914,179.90
February 2022	120,890,820.05	61,854,518.58	159,639,242.84
March 2022	119,203,775.56	61,077,345.55	156,409,596.41
April 2022	117,532,156.22	60,305,000.89	153,224,595.96
May 2022	115,875,810.47	59,537,449.91	150,083,605.78
June 2022	114,234,588.14	58,774,658.16	146,985,999.01
July 2022	112,608,340.50	58,016,591.40	143,931,157.49
August 2022	110,996,920.17	57,263,215.59	140,918,471.66
September 2022	109,400,181.16	56,514,496.95	137,947,340.45
October 2022	107,817,978.83	55,770,401.89	135,017,171.13
November 2022	106,250,169.88	55,030,897.03	132,127,379.22
December 2022	104,696,612.35	54,295,949.23	129,277,388.36
January 2023	103,157,165.60	53,565,525.55	126,466,630.23
February 2023	101,631,690.31	52,839,593.25	123,694,544.39
March 2023	100,120,048.43	52,118,119.83	120,960,578.22

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
April 2023	\$ 98,622,103.21	\$51,401,072.97	\$118,264,186.77
May 2023	97,137,719.17	50,688,420.58	115,604,832.71
June 2023	95,666,762.09	49,980,130.76	112,981,986.14
July 2023	94,209,098.99	49,276,171.82	110,395,124.57
August 2023	92,764,598.15	48,576,512.29	107,843,732.78
September 2023	91,333,129.04	47,881,120.86	105,327,302.71
October 2023	89,914,562.37	47,189,966.48	102,845,333.40
November 2023	88,508,770.04	46,503,018.25	100,397,330.84
December 2023	87,115,625.15	45,820,245.49	97,982,807.92
January 2024	85,735,001.98	45,141,617.71	95,601,284.31
February 2024	84,366,775.95	44,467,104.63	93,252,286.37
March 2024	83,010,823.68	43,796,676.14	90,935,347.06
April 2024	81,667,022.92	43,130,302.35	88,650,005.85
May 2024	80,335,252.53	42,467,953.55	86,395,808.63
June 2024	79,015,392.55	41,809,600.21	84,172,307.63
July 2024	77,707,324.07	41,155,213.00	81,983,857.03
August 2024	76,410,929.35	40,504,762.78	79,851,499.33
September 2024	75,126,091.70	39,858,220.60	77,773,812.27
October 2024	73,852,695.52	39,215,557.68	75,749,409.32
November 2024	72,590,626.29	38,576,745.43	73,776,938.85
December 2024	71,339,770.57	37,941,755.47	71,855,083.20
January 2025	70,100,015.94	37,310,559.55	69,982,557.87
February 2025	68,871,251.06	36,683,129.65	68,158,110.68
March 2025	67,653,365.59	36,059,437.89	66,380,520.97
April 2025	66,446,250.23	35,439,456.61	64,648,598.79
May 2025	65,249,796.71	34,823,158.29	62,961,184.15
June 2025	64,063,897.74	34,210,515.61	61,317,146.27
July 2025	62,898,079.33	33,601,501.40	59,715,382.86
August 2025	61,752,802.54	32,996,088.69	58,154,819.36
September 2025	60,627,712.92	32,394,250.67	56,634,408.32
October 2025	59,522,462.04	31,795,960.70	55,153,128.66
November 2025	58,436,707.42	31,206,777.09	53,709,985.04
December 2025	57,370,112.40	30,628,144.73	52,304,007.21
January 2026	56,322,346.04	30,059,878.89	50,934,249.36
February 2026	55,293,083.05	29,501,798.07	49,599,789.57
March 2026	54,282,003.67	28,953,723.87	48,299,729.13
April 2026	53,288,793.59	28,415,480.98	47,033,192.03
May 2026	52,313,143.84	27,886,897.10	45,799,324.34
June 2026	51,354,750.74	27,367,802.90	44,597,293.69
July 2026	50,413,315.75	26,858,032.00	43,426,288.72
August 2026	49,488,545.45	26,357,420.85	42,285,518.54
September 2026	48,580,151.41	25,865,808.74	41,174,212.25
October 2026	47,687,850.10	25,383,037.74	40,091,618.39
November 2026	46,811,362.85	24,908,952.63	39,037,004.50
December 2026	45,950,415.73	24,443,400.88	38,009,656.62
January 2027	45,104,739.48	23,986,232.59	37,008,878.83
February 2027	44,274,069.44	23,537,300.45	36,033,992.80

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
March 2027	\$ 43,458,145.47	\$23,096,459.70	\$ 35,084,337.35
April 2027	42,656,711.86	22,663,568.08	34,159,268.01
May 2027	41,869,517.27	22,238,485.78	33,258,156.60
June 2027	41,096,314.64	21,821,075.41	32,380,390.86
July 2027	40,336,861.15	21,411,201.96	31,525,373.98
August 2027	39,590,918.12	21,008,732.75	30,692,524.28
September 2027	38,858,250.93	20,613,537.39	29,881,274.79
October 2027	38,138,628.99	20,225,487.77	29,091,072.90
November 2027	37,431,825.64	19,844,457.97	28,321,379.97
December 2027	36,737,618.10	19,470,324.27	27,571,671.04
January 2028	36,055,787.40	19,102,965.06	26,841,434.41
February 2028	35,386,118.30	18,742,260.88	26,130,171.36
March 2028	34,728,399.26	18,388,094.30	25,437,395.82
April 2028	34,082,422.35	18,040,349.94	24,762,634.01
May 2028	33,447,983.19	17,698,914.44	24,105,424.19
June 2028	32,824,880.92	17,363,676.37	23,465,316.31
July 2028	32,212,918.09	17,034,526.25	22,841,871.74
August 2028	31,611,900.65	16,711,356.49	22,234,662.98
September 2028	31,021,637.87	16,394,061.38	21,643,273.39
October 2028	30,441,942.27	16,082,537.03	21,067,296.87
November 2028	29,872,629.61	15,776,681.35	20,506,337.66
December 2028	29,313,518.79	15,476,394.05	19,960,010.03
January 2029	28,764,431.81	15,181,576.55	19,427,938.07
February 2029	28,225,193.73	14,892,131.99	18,909,755.38
March 2029	27,695,632.60	14,607,965.19	18,405,104.91
April 2029	27,175,579.44	14,328,982.65	17,913,638.66
May 2029	26,664,868.14	14,055,092.45	17,435,017.48
June 2029	26,163,335.45	13,786,204.31	16,968,910.85
July 2029	25,670,820.94	13,522,229.48	16,514,996.65
August 2029	25,187,166.91	13,263,080.80	16,072,960.95
September 2029	24,712,218.37	13,008,672.58	15,642,497.82
October 2029	24,245,823.00	12,758,920.65	15,223,309.11
November 2029	23,787,831.09	12,513,742.30	14,815,104.24
December 2029	23,338,095.52	12,273,056.24	14,417,600.07
January 2030	22,896,471.66	12,036,782.63	14,030,520.64
February 2030	22,462,817.40	11,804,842.99	13,653,597.02
March 2030	22,036,993.06	11,577,160.22	13,286,567.14
April 2030	21,618,861.36	11,353,658.57	12,929,175.62
May 2030	21,208,287.39	11,134,263.60	12,581,173.58
June 2030	20,805,138.54	10,918,902.16	12,242,318.47
July 2030	20,409,284.51	10,707,502.40	11,912,373.95
August 2030	20,020,597.22	10,499,993.70	11,591,109.71
September 2030	19,638,950.80	10,296,306.69	11,278,301.30
October 2030	19,264,221.56	10,096,373.20	10,973,730.02
November 2030	18,896,287.92	9,900,126.25	10,677,182.72
December 2030	18,535,030.41	9,707,500.03	10,388,451.74
January 2031	18,180,331.62	9,518,429.89	10,107,334.68

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
February 2031	\$ 17,832,076.14	\$ 9,332,852.29	\$ 9,833,634.34
March 2031	17,490,150.58	9,150,704.82	9,567,158.55
April 2031	17,154,443.48	8,971,926.15	9,307,720.06
May 2031	16,824,845.32	8,796,456.03	9,055,136.40
June 2031	16,501,248.46	8,624,235.25	8,809,229.77
July 2031	16,183,547.12	8,455,205.64	8,569,826.92
August 2031	15,871,637.35	8,289,310.07	8,336,759.03
September 2031	15,565,416.98	8,126,492.38	8,109,861.61
October 2031	15,264,785.62	7,966,697.40	7,888,974.38
November 2031	14,969,644.62	7,809,870.95	7,673,941.15
December 2031	14,679,897.00	7,655,959.77	7,464,609.75
January 2032	14,395,447.49	7,504,911.55	7,260,831.91
February 2032	14,116,202.46	7,356,674.89	7,062,463.16
March 2032	13,842,069.88	7,211,199.29	6,869,362.71
April 2032	13,572,959.34	7,068,435.14	6,681,393.41
May 2032	13,308,781.98	6,928,333.70	6,498,421.63
June 2032	13,049,450.46	6,790,847.09	6,320,317.14
July 2032	12,794,878.99	6,655,928.26	6,146,953.09
August 2032	12,544,983.23	6,523,530.98	5,978,205.86
September 2032	12,299,680.32	6,393,609.87	5,813,955.02
October 2032	12,058,888.83	6,266,120.30	5,654,083.24
November 2032	11,822,528.74	6,141,018.46	5,498,476.17
December 2032	11,590,521.41	6,018,261.28	5,347,022.45
January 2033	11,362,789.59	5,897,806.47	5,199,613.54
February 2033	11,139,257.33	5,779,612.48	5,056,143.73
March 2033	10,919,850.03	5,663,638.49	4,916,510.00
April 2033	10,704,494.37	5,549,844.39	4,780,612.00
May 2033	10,493,118.30	5,438,190.78	4,648,351.96
June 2033	10,285,651.03	5,328,638.98	4,519,634.62
July 2033	10,082,023.00	5,221,150.94	4,394,367.19
August 2033	9,882,165.84	5,115,689.32	4,272,459.25
September 2033	9,686,012.38	5,012,217.44	4,153,822.73
October 2033	9,493,496.64	4,910,699.24	4,038,371.82
November 2033	9,304,553.74	4,811,099.32	3,926,022.94
December 2033	9,119,119.97	4,713,382.88	3,816,694.65
January 2034	8,937,132.70	4,617,515.77	3,710,307.62
February 2034	8,758,530.41	4,523,464.41	3,606,784.57
March 2034	8,583,252.63	4,431,195.84	3,506,050.20
April 2034	8,411,239.97	4,340,677.65	3,408,031.18
May 2034	8,242,434.06	4,251,878.04	3,312,656.06
June 2034	8,076,777.53	4,164,765.74	3,219,855.25
July 2034	7,914,214.03	4,079,310.05	3,129,560.95
August 2034	7,754,688.20	3,995,480.81	3,041,707.11
September 2034	7,598,145.62	3,913,248.41	2,956,229.40
October 2034	7,444,532.84	3,832,583.73	2,873,065.15
November 2034	7,293,797.34	3,753,458.19	2,792,153.33
December 2034	7,145,887.49	3,675,843.71	2,713,434.46

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
January 2035	\$ 7,000,752.61	\$ 3,599,712.71	\$ 2,636,850.62
February 2035	6,858,342.86	3,525,038.09	2,562,345.40
March 2035	6,718,609.29	3,451,793.26	2,489,863.85
April 2035	6,581,503.81	3,379,952.06	2,419,352.42
May 2035	6,446,979.16	3,309,488.82	2,350,758.98
June 2035	6,314,988.92	3,240,378.32	2,284,032.76
July 2035	6,185,487.46	3,172,595.80	2,219,124.26
August 2035	6,058,429.97	3,106,116.91	2,155,985.33
September 2035	5,933,772.41	3,040,917.76	2,094,569.03
October 2035	5,811,471.52	2,976,974.87	2,034,829.65
November 2035	5,691,484.79	2,914,265.19	1,976,722.67
December 2035	5,573,770.47	2,852,766.08	1,920,204.73
January 2036	5,458,287.53	2,792,455.29	1,865,233.61
February 2036	5,344,995.64	2,733,310.97	1,811,768.17
March 2036	5,233,855.22	2,675,311.67	1,759,768.35
April 2036	5,124,827.35	2,618,436.31	1,709,195.13
May 2036	5,017,873.82	2,562,664.19	1,660,010.52
June 2036	4,912,957.05	2,507,974.98	1,612,177.52
July 2036	4,810,040.17	2,454,348.72	1,565,660.08
August 2036	4,709,086.92	2,401,765.79	1,520,423.11
September 2036	4,610,061.70	2,350,206.93	1,476,432.41
October 2036	4,512,929.51	2,299,653.23	1,433,654.71
November 2036	4,417,656.01	2,250,086.11	1,392,057.57
December 2036	4,324,207.41	2,201,487.33	1,351,609.44
January 2037	4,232,550.55	2,153,838.95	1,312,279.57
February 2037	4,142,652.86	2,107,123.38	1,274,038.01
March 2037	4,054,482.30	2,061,323.35	1,236,855.61
April 2037	3,968,007.45	2,016,421.86	1,200,703.98
May 2037	3,883,197.40	1,972,402.27	1,165,555.47
June 2037	3,800,021.81	1,929,248.18	1,131,383.15
July 2037	3,718,450.86	1,886,943.52	1,098,160.81
August 2037	3,638,455.27	1,845,472.51	1,065,862.92
September 2037	3,560,006.27	1,804,819.63	1,034,464.62
October 2037	3,483,075.60	1,764,969.66	1,003,941.70
November 2037	3,407,635.49	1,725,907.64	974,270.60
December 2037	3,333,658.68	1,687,618.90	945,428.36
January 2038	3,261,118.37	1,650,088.99	917,392.64
February 2038	3,189,988.24	1,613,303.77	890,141.67
March 2038	3,120,242.46	1,577,249.33	863,654.28
April 2038	3,051,855.61	1,541,912.00	837,909.84
May 2038	2,984,802.77	1,507,278.38	812,888.26
June 2038	2,919,059.43	1,473,335.29	788,569.98
July 2038	2,854,601.53	1,440,069.81	764,935.98
August 2038	2,791,405.42	1,407,469.23	741,967.70
September 2038	2,729,447.88	1,375,521.08	719,647.11
October 2038	2,668,706.11	1,344,213.12	697,956.64
November 2038	2,609,157.69	1,313,533.33	676,879.18

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
December 2038	\$ 2,550,780.63	\$ 1,283,469.89	\$ 656,398.07
January 2039	2,493,553.31	1,254,011.22	636,497.11
February 2039	2,437,454.50	1,225,145.92	617,160.50
March 2039	2,382,463.34	1,196,862.83	598,372.89
April 2039	2,328,559.36	1,169,150.97	580,119.31
May 2039	2,275,722.43	1,141,999.55	562,385.21
June 2039	2,223,932.80	1,115,398.00	545,156.40
July 2039	2,173,171.05	1,089,335.92	528,419.09
August 2039	2,123,418.13	1,063,803.13	512,159.85
September 2039	2,074,655.31	1,038,789.59	496,365.59
October 2039	2,026,864.21	1,014,285.47	481,023.59
November 2039	1,980,026.76	990,281.13	466,121.46
December 2039	1,934,125.23	966,767.07	451,647.14
January 2040	1,889,142.20	943,733.99	437,588.89
February 2040	1,845,060.55	921,172.75	423,935.28
March 2040	1,801,863.49	899,074.38	410,675.19
April 2040	1,759,534.51	877,430.07	397,797.79
May 2040	1,718,057.40	856,231.16	385,292.55
June 2040	1,677,416.25	835,469.18	373,149.21
July 2040	1,637,595.42	815,135.77	361,357.79
August 2040	1,598,579.56	795,222.76	349,908.58
September 2040	1,560,353.60	775,722.12	338,792.12
October 2040	1,522,902.72	756,625.94	327,999.21
November 2040	1,486,212.38	737,926.50	317,520.90
December 2040	1,450,268.31	719,616.19	307,348.46
January 2041	1,415,056.48	701,687.53	297,473.42
February 2041	1,380,563.13	684,133.22	287,887.52
March 2041	1,346,774.71	666,946.04	278,582.73
April 2041	1,313,677.97	650,118.95	269,551.24
May 2041	1,281,259.85	633,645.02	260,785.44
June 2041	1,249,507.54	617,517.43	252,277.92
July 2041	1,218,408.48	601,729.50	244,021.48
August 2041	1,187,950.31	586,274.69	236,009.11
September 2041	1,158,120.91	571,146.55	228,234.00
October 2041	1,128,908.37	556,338.77	220,689.50
November 2041	1,100,300.99	541,845.14	213,369.17
December 2041	1,072,287.29	527,659.58	206,266.71
January 2042	1,044,856.01	513,776.11	199,376.01
February 2042	1,017,996.06	500,188.86	192,691.13
March 2042	991,696.59	486,892.09	186,206.28
April 2042	965,946.91	473,880.13	179,915.83
May 2042	940,736.55	461,147.44	173,814.30
June 2042	916,055.22	448,688.58	167,896.37
July 2042	891,892.81	436,498.20	162,156.84
August 2042	868,239.41	424,571.06	156,590.68
September 2042	845,085.27	412,902.01	151,192.97
October 2042	822,420.84	401,486.00	145,958.96

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
November 2042	\$ 800,236.72	\$ 390,318.06	\$ 140,883.98
December 2042	778,523.69	379,393.34	135,963.52
January 2043	757,272.71	368,707.05	131,193.20
February 2043	736,474.89	358,254.51	126,568.74
March 2043	716,121.51	348,031.12	122,085.97
April 2043	696,203.99	338,032.36	117,740.86
May 2043	676,713.94	328,253.79	113,529.48
June 2043	657,643.09	318,691.08	109,447.99
July 2043	638,983.35	309,339.95	105,492.67
August 2043	620,726.75	300,196.22	101,659.92
September 2043	602,865.48	291,255.77	97,946.20
October 2043	585,391.89	282,514.57	94,348.10
November 2043	568,298.43	273,968.66	90,862.28
December 2043	551,577.72	265,614.16	87,485.52
January 2044	535,222.51	257,447.26	84,214.65
February 2044	519,225.67	249,464.22	81,046.62
March 2044	503,580.22	241,661.36	77,978.45
April 2044	488,279.29	234,035.09	75,007.25
May 2044	473,316.15	226,581.87	72,130.20
June 2044	458,684.18	219,298.23	69,344.56
July 2044	444,376.89	212,180.78	66,647.67
August 2044	430,387.92	205,226.17	64,036.95
September 2044	416,711.01	198,431.12	61,509.88
October 2044	403,340.02	191,792.43	59,064.00
November 2044	390,268.93	185,306.94	56,696.95
December 2044	377,491.82	178,971.55	54,406.41
January 2045	365,002.88	172,783.24	52,190.13
February 2045	352,796.43	166,739.01	50,045.92
March 2045	340,866.87	160,835.96	47,971.67
April 2045	329,208.71	155,071.21	45,965.30
May 2045	317,816.57	149,441.95	44,024.81
June 2045	306,685.16	143,945.42	42,148.25
July 2045	295,809.29	138,578.92	40,333.72
August 2045	285,183.86	133,339.78	38,579.37
September 2045	274,803.89	128,225.41	36,883.42
October 2045	264,664.46	123,233.24	35,244.12
November 2045	254,760.77	118,360.78	33,659.78
December 2045	245,088.09	113,605.56	32,128.75
January 2046	235,641.79	108,965.16	30,649.43
February 2046	226,417.31	104,437.23	29,220.28
March 2046	217,410.19	100,019.44	27,839.78
April 2046	208,616.05	95,709.52	26,506.46
May 2046	200,030.60	91,505.22	25,218.89
June 2046	191,649.61	87,404.36	23,975.70
July 2046	183,468.95	83,404.79	22,775.53
August 2046	175,484.55	79,504.41	21,617.08
September 2046	167,692.42	75,701.14	20,499.08

<u>Distribution Date</u>	<u>Classes FP, PA and PZ (in the aggregate)</u>	<u>Class KA</u>	<u>Classes DA, DE, DF, MA and MB (in the aggregate)</u>
October 2046	\$ 160,088.67	\$ 71,992.96	\$ 19,420.29
November 2046	152,669.44	68,377.88	18,379.51
December 2046	145,430.98	64,853.95	17,375.57
January 2047	138,369.60	61,419.25	16,407.35
February 2047	131,481.65	58,071.91	15,473.75
March 2047	124,763.60	54,810.10	14,573.69
April 2047	118,211.95	51,632.00	13,706.14
May 2047	111,823.28	48,535.84	12,870.08
June 2047	105,594.23	45,519.90	12,064.55
July 2047	99,521.51	42,582.47	11,288.60
August 2047	93,601.87	39,721.88	10,541.28
September 2047	87,832.16	36,936.49	9,821.72
October 2047	82,209.25	34,224.70	9,129.04
November 2047	76,730.11	31,584.94	8,462.39
December 2047	71,391.73	29,015.67	7,820.96
January 2048	66,191.17	26,515.36	7,203.94
February 2048	61,125.57	24,082.55	6,610.56
March 2048	56,192.08	21,715.77	6,040.07
April 2048	51,387.94	19,413.59	5,491.73
May 2048	46,710.42	17,174.63	4,964.85
June 2048	42,156.87	14,997.50	4,458.74
July 2048	37,724.66	12,880.88	3,972.72
August 2048	33,411.23	10,823.43	3,506.14
September 2048	29,214.06	8,823.86	3,058.39
October 2048	25,130.69	6,880.92	2,628.84
November 2048	21,158.68	4,993.36	2,216.90
December 2048	17,295.67	3,159.96	1,822.01
January 2049	13,539.33	1,379.53	1,443.60
February 2049	9,887.37	0.00	1,081.12
March 2049	6,337.56	0.00	734.07
April 2049	2,887.69	0.00	401.91
May 2049	0.00	0.00	84.17
June 2049 and thereafter	0.00	0.00	0.00

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
Initial Balance	\$33,427,000.00	\$53,866,000.00	\$15,635,948.00
September 2019	32,948,522.60	53,726,624.50	15,590,535.48
October 2019	32,457,534.33	53,559,989.26	15,536,679.27
November 2019	31,954,548.33	53,366,133.84	15,474,407.18
December 2019	31,440,091.30	53,145,132.18	15,403,758.87
January 2020	30,914,702.55	52,897,092.71	15,324,785.86
February 2020	30,378,933.03	52,622,158.44	15,237,551.50
March 2020	29,833,344.30	52,320,506.93	15,142,130.96
April 2020	29,295,434.66	51,992,350.25	15,038,611.16
May 2020	28,765,094.96	51,637,934.75	14,927,090.67
June 2020	28,242,217.57	51,257,540.89	14,807,679.58
July 2020	27,726,696.33	50,851,482.94	14,680,499.39
August 2020	27,218,426.59	50,420,108.55	14,545,682.80
September 2020	26,717,305.15	49,963,798.35	14,403,373.52
October 2020	26,223,230.24	49,482,965.41	14,253,726.03
November 2020	25,736,101.50	48,978,054.63	14,096,905.33
December 2020	25,255,820.00	48,449,542.12	13,933,086.66
January 2021	24,782,288.15	47,897,934.38	13,762,455.21
February 2021	24,315,409.75	47,323,767.60	13,585,205.72
March 2021	23,855,089.93	46,727,606.69	13,401,542.20
April 2021	23,401,235.14	46,110,044.40	13,211,677.50
May 2021	22,953,753.13	45,471,700.28	13,015,832.91
June 2021	22,512,552.94	44,813,219.66	12,814,237.76
July 2021	22,077,544.90	44,135,272.48	12,607,128.93
August 2021	21,648,640.55	43,438,552.15	12,394,750.43
September 2021	21,225,752.70	42,723,774.27	12,177,352.88
October 2021	20,808,795.36	41,991,675.39	11,955,193.03
November 2021	20,397,683.74	41,243,011.67	11,728,533.24
December 2021	19,992,334.23	40,478,557.48	11,497,640.92
January 2022	19,592,664.40	39,699,104.01	11,270,383.35
February 2022	19,198,592.97	38,905,457.78	11,046,704.30
March 2022	18,810,039.77	38,122,797.27	10,826,548.45
April 2022	18,426,925.78	37,350,966.12	10,609,861.28
May 2022	18,049,173.06	36,589,810.11	10,396,589.13
June 2022	17,676,704.78	35,839,177.20	10,186,679.15
July 2022	17,309,445.17	35,098,917.46	9,980,079.31
August 2022	16,947,319.53	34,368,883.02	9,776,738.36
September 2022	16,590,254.17	33,648,928.08	9,576,605.85
October 2022	16,238,176.48	32,938,908.88	9,379,632.09
November 2022	15,891,014.83	32,238,683.65	9,185,768.15
December 2022	15,548,698.60	31,548,112.59	8,994,965.86
January 2023	15,211,158.15	30,867,057.83	8,807,177.77
February 2023	14,878,324.84	30,195,383.46	8,622,357.17
March 2023	14,550,130.97	29,532,955.42	8,440,458.07
April 2023	14,226,509.77	28,879,641.54	8,261,435.17
May 2023	13,907,395.44	28,235,311.48	8,085,243.86
June 2023	13,592,723.08	27,599,836.71	7,911,840.23
July 2023	13,282,428.70	26,973,090.50	7,741,181.04

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2023	\$12,977,605.74	\$26,354,947.89	\$ 7,573,223.69
September 2023	12,679,636.29	25,745,285.63	7,407,926.26
October 2023	12,388,368.52	25,143,982.23	7,245,247.47
November 2023	12,103,653.91	24,550,917.86	7,085,146.65
December 2023	11,825,347.23	23,965,974.36	6,927,583.77
January 2024	11,553,306.40	23,389,035.24	6,772,519.41
February 2024	11,287,392.48	22,819,985.61	6,619,914.76
March 2024	11,027,469.55	22,258,712.20	6,469,731.60
April 2024	10,773,404.71	21,705,103.30	6,321,932.30
May 2024	10,525,067.93	21,159,048.77	6,176,479.79
June 2024	10,282,332.06	20,620,439.99	6,033,337.59
July 2024	10,045,072.74	20,089,169.89	5,892,469.78
August 2024	9,813,168.34	19,566,602.80	5,753,840.97
September 2024	9,586,499.88	19,057,434.89	5,617,416.33
October 2024	9,364,951.01	18,561,326.30	5,483,161.55
November 2024	9,148,407.94	18,077,945.73	5,351,042.88
December 2024	8,936,759.38	17,606,970.21	5,221,596.62
January 2025	8,729,896.45	17,148,084.89	5,095,230.84
February 2025	8,527,712.72	16,700,982.86	4,971,873.08
March 2025	8,330,104.05	16,265,364.92	4,851,452.61
April 2025	8,136,968.61	15,840,939.40	4,733,900.30
May 2025	7,948,206.82	15,427,421.99	4,619,148.68
June 2025	7,763,721.27	15,024,535.51	4,507,131.82
July 2025	7,583,416.69	14,632,009.79	4,397,785.34
August 2025	7,407,199.94	14,249,581.45	4,291,046.36
September 2025	7,234,979.88	13,876,993.76	4,186,853.48
October 2025	7,066,667.43	13,513,996.44	4,085,146.71
November 2025	6,902,175.42	13,160,345.52	3,985,867.47
December 2025	6,741,418.64	12,815,803.21	3,888,958.56
January 2026	6,584,313.73	12,480,137.67	3,794,364.09
February 2026	6,430,779.18	12,153,122.94	3,702,029.50
March 2026	6,280,735.27	11,834,538.75	3,611,901.49
April 2026	6,134,104.05	11,524,170.38	3,523,928.01
May 2026	5,990,809.26	11,221,808.54	3,438,058.23
June 2026	5,850,776.36	10,927,249.21	3,354,242.49
July 2026	5,713,932.42	10,640,293.53	3,272,432.32
August 2026	5,580,206.14	10,360,747.64	3,192,580.35
September 2026	5,449,527.77	10,088,422.61	3,114,640.35
October 2026	5,321,829.14	9,823,134.26	3,038,567.15
November 2026	5,197,043.54	9,564,703.05	2,964,316.63
December 2026	5,075,105.76	9,312,954.00	2,891,845.73
January 2027	4,955,952.02	9,067,716.54	2,821,112.37
February 2027	4,839,519.96	8,828,824.42	2,752,075.47
March 2027	4,725,748.57	8,596,115.58	2,684,694.91
April 2027	4,614,578.23	8,369,432.06	2,618,931.50
May 2027	4,505,950.60	8,148,619.92	2,554,746.98
June 2027	4,399,808.66	7,933,529.07	2,492,103.98
July 2027	4,296,096.62	7,724,013.25	2,430,966.01

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2027	\$ 4,194,759.95	\$ 7,519,929.90	\$ 2,371,297.42
September 2027	4,095,745.32	7,321,140.05	2,313,063.40
October 2027	3,999,000.56	7,127,508.27	2,256,229.98
November 2027	3,904,474.70	6,938,902.53	2,200,763.96
December 2027	3,812,117.85	6,755,194.18	2,146,632.93
January 2028	3,721,881.25	6,576,257.81	2,093,805.22
February 2028	3,633,717.22	6,401,971.17	2,042,249.94
March 2028	3,547,579.13	6,232,215.15	1,991,936.89
April 2028	3,463,421.38	6,066,873.63	1,942,836.59
May 2028	3,381,199.40	5,905,833.44	1,894,920.26
June 2028	3,300,869.58	5,748,984.27	1,848,159.80
July 2028	3,222,389.31	5,596,218.63	1,802,527.74
August 2028	3,145,716.89	5,447,431.74	1,757,997.28
September 2028	3,070,811.58	5,302,521.49	1,714,542.25
October 2028	2,997,633.51	5,161,388.36	1,672,137.08
November 2028	2,926,143.73	5,023,935.34	1,630,756.81
December 2028	2,856,304.13	4,890,067.90	1,590,377.07
January 2029	2,788,077.45	4,759,693.91	1,550,974.06
February 2029	2,721,427.27	4,632,723.58	1,512,524.54
March 2029	2,656,317.96	4,509,069.40	1,475,005.80
April 2029	2,592,714.71	4,388,646.08	1,438,395.69
May 2029	2,530,583.46	4,271,370.50	1,402,672.57
June 2029	2,469,890.92	4,157,161.65	1,367,815.31
July 2029	2,410,604.53	4,045,940.60	1,333,803.27
August 2029	2,352,692.46	3,937,630.41	1,300,616.30
September 2029	2,296,123.60	3,832,156.09	1,268,234.74
October 2029	2,240,867.52	3,729,444.59	1,236,639.37
November 2029	2,186,894.47	3,629,424.68	1,205,811.43
December 2029	2,134,175.35	3,532,026.97	1,175,732.61
January 2030	2,082,681.74	3,437,183.84	1,146,385.02
February 2030	2,032,385.83	3,344,829.38	1,117,751.21
March 2030	1,983,260.44	3,254,899.35	1,089,814.12
April 2030	1,935,278.98	3,167,331.18	1,062,557.09
May 2030	1,888,415.47	3,082,063.87	1,035,963.89
June 2030	1,842,644.51	2,999,037.97	1,010,018.62
July 2030	1,797,941.27	2,918,195.57	984,705.81
August 2030	1,754,281.44	2,839,480.23	960,010.30
September 2030	1,711,641.31	2,762,836.94	935,917.34
October 2030	1,669,997.65	2,688,212.09	912,412.48
November 2030	1,629,327.78	2,615,553.47	889,481.66
December 2030	1,589,609.51	2,544,810.16	867,111.10
January 2031	1,550,821.16	2,475,932.58	845,287.40
February 2031	1,512,941.51	2,408,872.40	823,997.43
March 2031	1,475,949.85	2,343,582.52	803,228.40
April 2031	1,439,825.92	2,280,017.06	782,967.81
May 2031	1,404,549.89	2,218,131.29	763,203.46
June 2031	1,370,102.41	2,157,881.64	743,923.43
July 2031	1,336,464.53	2,099,225.66	725,116.10

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2031	\$ 1,303,617.77	\$ 2,042,121.98	\$ 706,770.10
September 2031	1,271,544.01	1,986,530.28	688,874.36
October 2031	1,240,225.58	1,932,411.28	671,418.04
November 2031	1,209,645.18	1,879,726.72	654,390.59
December 2031	1,179,785.91	1,828,439.30	637,781.67
January 2032	1,150,631.26	1,778,512.68	621,581.23
February 2032	1,122,165.06	1,729,911.46	605,779.42
March 2032	1,094,371.52	1,682,601.15	590,366.64
April 2032	1,067,235.23	1,636,548.12	575,333.53
May 2032	1,040,741.08	1,591,719.63	560,670.92
June 2032	1,014,874.33	1,548,083.78	546,369.90
July 2032	989,620.56	1,505,609.46	532,421.73
August 2032	964,965.68	1,464,266.40	518,817.90
September 2032	940,895.93	1,424,025.07	505,550.10
October 2032	917,397.82	1,384,856.73	492,610.22
November 2032	894,458.21	1,346,733.36	479,990.33
December 2032	872,064.23	1,309,627.65	467,682.70
January 2033	850,203.31	1,273,513.03	455,679.79
February 2033	828,863.14	1,238,363.58	443,974.21
March 2033	808,031.73	1,204,154.06	432,558.78
April 2033	787,697.32	1,170,859.87	421,426.48
May 2033	767,848.45	1,138,457.06	410,570.44
June 2033	748,473.89	1,106,922.29	399,983.98
July 2033	729,562.68	1,076,232.81	389,660.56
August 2033	711,104.09	1,046,366.48	379,593.80
September 2033	693,087.67	1,017,301.70	369,777.48
October 2033	675,503.16	989,017.46	360,205.52
November 2033	658,340.57	961,493.26	350,871.99
December 2033	641,590.11	934,709.16	341,771.10
January 2034	625,242.23	908,645.71	332,897.19
February 2034	609,287.58	883,283.98	324,244.76
March 2034	593,717.04	858,605.52	315,808.40
April 2034	578,521.67	834,592.36	307,582.87
May 2034	563,692.77	811,226.98	299,563.03
June 2034	549,221.81	788,492.34	291,743.88
July 2034	535,100.45	766,371.83	284,120.53
August 2034	521,320.57	744,849.25	276,688.19
September 2034	507,874.19	723,908.85	269,442.22
October 2034	494,753.56	703,535.27	262,378.07
November 2034	481,951.06	683,713.55	255,491.30
December 2034	469,459.29	664,429.12	248,777.58
January 2035	457,270.97	645,667.78	242,232.69
February 2035	445,379.02	627,415.73	235,852.48
March 2035	433,776.51	609,659.47	229,632.95
April 2035	422,456.67	592,385.91	223,570.15
May 2035	411,412.87	575,582.27	217,660.26
June 2035	400,638.67	559,236.10	211,899.51
July 2035	390,127.72	543,335.27	206,284.27

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2035	\$ 379,873.87	\$ 527,867.99	\$ 200,810.97
September 2035	369,871.07	512,822.76	195,476.12
October 2035	360,113.44	498,188.37	190,276.32
November 2035	350,595.20	483,953.92	185,208.26
December 2035	341,310.73	470,108.78	180,268.71
January 2036	332,254.53	456,642.61	175,454.50
February 2036	323,421.23	443,545.33	170,762.56
March 2036	314,805.56	430,807.11	166,189.87
April 2036	306,402.41	418,418.41	161,733.50
May 2036	298,206.75	406,369.91	157,390.59
June 2036	290,213.69	394,652.54	153,158.33
July 2036	282,418.44	383,257.48	149,034.00
August 2036	274,816.32	372,176.12	145,014.94
September 2036	267,402.76	361,400.09	141,098.55
October 2036	260,173.30	350,921.23	137,282.30
November 2036	253,123.58	340,731.60	133,563.70
December 2036	246,249.33	330,823.46	129,940.35
January 2037	239,546.39	321,189.29	126,409.88
February 2037	233,010.69	311,821.73	122,970.01
March 2037	226,638.27	302,713.66	119,618.47
April 2037	220,425.22	293,858.11	116,353.10
May 2037	214,367.77	285,248.30	113,171.74
June 2037	208,462.20	276,877.65	110,072.31
July 2037	202,704.90	268,739.73	107,052.79
August 2037	197,092.33	260,828.29	104,111.18
September 2037	191,621.03	253,137.22	101,245.55
October 2037	186,287.62	245,660.61	98,454.00
November 2037	181,088.82	238,392.68	95,734.70
December 2037	176,021.39	231,327.80	93,085.85
January 2038	171,082.20	224,460.50	90,505.68
February 2038	166,268.17	217,785.45	87,992.49
March 2038	161,576.29	211,297.46	85,544.60
April 2038	157,003.63	204,991.47	83,160.39
May 2038	152,547.34	198,862.56	80,838.26
June 2038	148,204.60	192,905.95	78,576.67
July 2038	143,972.69	187,116.96	76,374.08
August 2038	139,848.93	181,491.06	74,229.04
September 2038	135,830.72	176,023.83	72,140.10
October 2038	131,915.52	170,710.95	70,105.85
November 2038	128,100.82	165,548.25	68,124.91
December 2038	124,384.21	160,531.63	66,195.96
January 2039	120,763.31	155,657.13	64,317.68
February 2039	117,235.79	150,920.89	62,488.80
March 2039	113,799.41	146,319.12	60,708.08
April 2039	110,451.94	141,848.18	58,974.30
May 2039	107,191.23	137,504.49	57,286.29
June 2039	104,015.16	133,284.58	55,642.88
July 2039	100,921.68	129,185.07	54,042.96

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2039	\$ 97,908.77	\$ 125,202.66	\$ 52,485.42
September 2039	94,974.48	121,334.16	50,969.19
October 2039	92,116.87	117,576.45	49,493.23
November 2039	89,334.09	113,926.49	48,056.52
December 2039	86,624.29	110,381.32	46,658.07
January 2040	83,985.70	106,938.07	45,296.90
February 2040	81,416.56	103,593.94	43,972.07
March 2040	78,915.17	100,346.21	42,682.66
April 2040	76,479.88	97,192.22	41,427.77
May 2040	74,109.05	94,129.39	40,206.51
June 2040	71,801.09	91,155.21	39,018.04
July 2040	69,554.47	88,267.24	37,861.51
August 2040	67,367.67	85,463.09	36,736.12
September 2040	65,239.20	82,740.45	35,641.06
October 2040	63,167.64	80,097.06	34,575.57
November 2040	61,151.56	77,530.73	33,538.88
December 2040	59,189.60	75,039.33	32,530.27
January 2041	57,280.41	72,620.77	31,549.01
February 2041	55,422.69	70,273.04	30,594.40
March 2041	53,615.16	67,994.16	29,665.75
April 2041	51,856.55	65,782.23	28,762.41
May 2041	50,145.67	63,635.37	27,883.72
June 2041	48,481.31	61,551.78	27,029.04
July 2041	46,862.32	59,529.69	26,197.76
August 2041	45,287.55	57,567.39	25,389.27
September 2041	43,755.91	55,663.20	24,603.00
October 2041	42,266.31	53,815.49	23,838.35
November 2041	40,817.69	52,022.69	23,094.78
December 2041	39,409.03	50,283.26	22,371.74
January 2042	38,039.32	48,595.69	21,668.69
February 2042	36,707.58	46,958.54	20,985.12
March 2042	35,412.86	45,370.38	20,320.53
April 2042	34,154.20	43,829.84	19,674.42
May 2042	32,930.71	42,335.57	19,046.30
June 2042	31,741.50	40,886.27	18,435.72
July 2042	30,585.68	39,480.66	17,842.21
August 2042	29,462.42	38,117.52	17,265.33
September 2042	28,370.89	36,795.64	16,704.65
October 2042	27,310.27	35,513.85	16,159.73
November 2042	26,279.79	34,271.01	15,630.18
December 2042	25,278.66	33,066.02	15,115.58
January 2043	24,306.14	31,897.80	14,615.54
February 2043	23,361.49	30,765.31	14,129.69
March 2043	22,444.01	29,667.52	13,657.64
April 2043	21,552.99	28,603.45	13,199.04
May 2043	20,687.74	27,572.13	12,753.52
June 2043	19,847.61	26,572.62	12,320.76
July 2043	19,031.95	25,604.01	11,900.40

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2043	\$ 18,240.12	\$ 24,665.43	\$ 11,492.12
September 2043	17,471.51	23,755.99	11,095.60
October 2043	16,725.51	22,874.88	10,710.53
November 2043	16,001.54	22,021.26	10,336.60
December 2043	15,299.02	21,194.35	9,973.52
January 2044	14,617.40	20,393.38	9,621.00
February 2044	13,956.12	19,617.59	9,278.76
March 2044	13,314.65	18,866.26	8,946.52
April 2044	12,692.48	18,138.68	8,624.02
May 2044	12,089.10	17,434.16	8,310.99
June 2044	11,504.01	16,752.03	8,007.19
July 2044	10,936.73	16,091.63	7,712.35
August 2044	10,386.79	15,452.33	7,426.26
September 2044	9,853.74	14,833.52	7,148.66
October 2044	9,337.12	14,234.60	6,879.33
November 2044	8,836.49	13,654.98	6,618.04
December 2044	8,351.44	13,094.10	6,364.59
January 2045	7,881.55	12,551.40	6,118.75
February 2045	7,426.41	12,026.36	5,880.32
March 2045	6,985.62	11,518.44	5,649.10
April 2045	6,558.81	11,027.16	5,424.89
May 2045	6,145.59	10,552.00	5,207.50
June 2045	5,745.60	10,092.50	4,996.75
July 2045	5,358.48	9,648.19	4,792.46
August 2045	4,983.89	9,218.62	4,594.44
September 2045	4,621.48	8,803.36	4,402.53
October 2045	4,270.92	8,401.96	4,216.55
November 2045	3,931.90	8,014.02	4,036.35
December 2045	3,604.08	7,639.14	3,861.77
January 2046	3,287.18	7,276.93	3,692.65
February 2046	2,980.89	6,927.00	3,528.83
March 2046	2,684.91	6,588.98	3,370.18
April 2046	2,398.97	6,262.51	3,216.55
May 2046	2,122.78	5,947.26	3,067.80
June 2046	1,856.07	5,642.86	2,923.79
July 2046	1,598.59	5,349.01	2,784.40
August 2046	1,350.07	5,065.36	2,649.49
September 2046	1,110.27	4,791.63	2,518.93
October 2046	878.94	4,527.49	2,392.61
November 2046	655.84	4,272.67	2,270.41
December 2046	440.74	4,026.86	2,152.21
January 2047	233.41	3,789.80	2,037.89
February 2047	33.64	3,561.22	1,927.35
March 2047	0.00	3,340.86	1,820.48
April 2047	0.00	3,128.45	1,717.18
May 2047	0.00	2,923.75	1,617.34
June 2047	0.00	2,726.54	1,520.86
July 2047	0.00	2,536.56	1,427.66

<u>Distribution Date</u>	<u>Class EA</u>	<u>Classes GE and GF (in the aggregate)</u>	<u>Classes P and ZU (in the aggregate)</u>
August 2047	\$ 0.00	\$ 2,353.59	\$ 1,337.63
September 2047	0.00	2,177.42	1,250.69
October 2047	0.00	2,007.84	1,166.74
November 2047	0.00	1,844.62	1,085.70
December 2047	0.00	1,687.59	1,007.48
January 2048	0.00	1,536.52	932.01
February 2048	0.00	1,391.25	859.20
March 2048	0.00	1,251.59	788.98
April 2048	0.00	1,117.34	721.27
May 2048	0.00	988.36	655.99
June 2048	0.00	864.45	593.08
July 2048	0.00	745.47	532.47
August 2048	0.00	631.24	474.08
September 2048	0.00	521.63	417.86
October 2048	0.00	416.47	363.73
November 2048	0.00	315.63	311.64
December 2048	0.00	218.96	261.52
January 2049	0.00	126.32	213.31
February 2049	0.00	37.59	166.97
March 2049	0.00	0.00	122.43
April 2049	0.00	0.00	79.63
May 2049	0.00	0.00	38.53
June 2049 and thereafter	0.00	0.00	0.00

Underlying Certificates

Trust Asset Group	Issuer	Series	Class	Issue Date	CUSIP Number	Interest Rate	Interest Type	Final Distribution Date	Principal Type	Original Notional Balance of Class	Underlying Certificate Factor	Notional Balance in Trust	Percentage of Class in Trust	Approximate Weighted Average Remaining Maturity of Mortgage Loans (in months)	Approximate Weighted Average Age of Mortgage Loans (in months)	Ginnie Mae I or II
6	Ginnie Mae	2017-129	BI(5)	August 30, 2017	38380GME1	3.5%	FIX/IO	July 2044	NTL (SEQ)	\$28,571,428	0.71146535	\$20,327,581	100.000000000000%	333	25	II
6	Ginnie Mae	2017-121	HI(4)(5)	August 30, 2017	38380TWF69	3.5	FIX/IO	September 2043	NTL (SEQ/AD)	39,617,485	0.68591148	13,587,043	49.9999987579	331	27	II
6	Ginnie Mae	2017-017	DI(4)(5)	February 28, 2017	38380CYP2	3.5	FIX/IO	September 2043	NTL (SEQ/AD)	35,714,285	0.57951725	18,628,304	89.9999986000	327	31	II
6	Ginnie Mae	2017-164	IG(4)(5)	November 30, 2017	38380KIS5	3.5	FIX/IO	April 2044	NTL (PAC/AD)	66,146,285	0.82481986	41,204,079	75.5196289557	335	23	II
6	Ginnie Mae	2019-052	IN(5)(6)	April 30, 2019	38381VB18	3.5	FIX/IO	March 2045	NTL (SC/PT)	27,354,034	0.89480616	24,458,662	100.0000000000	(6)	(6)	II
7	Ginnie Mae	2017-162	IK(5)	October 30, 2017	38380HW12	4.0	FIX/IO	October 2047	NTL (PT)	21,863,521	0.60807576	13,294,677	100.0000000000	336	23	II
7	Ginnie Mae	2017-077	IE(5)	May 30, 2017	38376UTU3	4.0	FIX/IO	May 2047	NTL (PT)	27,992,357	0.47465017	13,286,577	100.0000000000	329	29	II
7	Ginnie Mae	2017-492	IO(5)	December 29, 2017	38380T6Z4	4.0	FIX/IO	December 2047	NTL (PT)	25,000,000	0.60872465	15,218,316	100.0000000000	332	26	II
7	Ginnie Mae	2017-150	II(5)	October 30, 2017	38380G6X7	4.0	FIX/IO	October 2047	NTL (PAC/AD)	26,547,250	0.68704483	18,239,151	100.0000000000	331	27	II
7	Ginnie Mae	2018-042	IO(5)	March 29, 2018	38380VPW5	4.0	FIX/IO	March 2048	NTL (PT)	30,615,000	0.68860106	21,081,521	100.0000000000	335	24	II

(1) As defined under “Class Types” in Appendix I to the Base Offering Circular.

(2) Underlying Certificate Factors are as of August 2019.

(3) Based on information as of August 2019.

(4) MX Class.

(5) More than 10% of the Mortgage Loans underlying this Underlying Certificate may be higher balance Mortgage Loans. See “Risk Factors” in this Supplement.

(6) Ginnie Mae 2019-052 Class IN is backed by previously issued REMIC certificates, Class YI from Ginnie Mae 2016-136 and Class PI from Ginnie Mae 2017-033, and by a previously issued MX certificate, Class JI from Ginnie Mae 2017-137. These previously issued certificates are backed by certain mortgage loans whose approximate weighted average characteristics are as follows:

Series	Class	Approximate Weighted Average Coupon of Mortgage Loans(3)	Approximate Weighted Average Remaining Maturity of Mortgage Loans (in months)(3)	Approximate Weighted Average Loan Age of Mortgage Loans (in months)(3)
2016-136	YI	3.907%	322	36
2017-033	PI	3.880	327	31
2017-137	JI	3.893	333	25



\$969,928,717

*Government National
Mortgage Association*

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*OFFERING CIRCULAR SUPPLEMENT
August 23, 2019*

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