

An aerial photograph of a suburban neighborhood, showing a grid of streets, single-family homes with varying rooflines, and mature trees with autumn foliage in shades of yellow, orange, and red. The houses are mostly two-story structures with light-colored siding. The image is positioned on the left side of a dark blue background.

Single-Family MBS Disclosures Guide

A resource for disclosure
publication timing, definitions,
calculations and file formats

November 2024



Fannie Mae®

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Introduction

This guide provides definitions and calculations for the data elements disclosed on Fannie Mae's Single-Family Mortgage-Backed Securities which are published in our issuance and monthly disclosure files, as well as displayed on our [PoolTalk®](#) web-based application. This document also provides the disclosure file naming convention, publication timing, and file formats.

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Business Name	File Name	Publication Timing	Process Cycle	Product	Archive	Location
CRA Report	FNM_CRA_Prefix_Pool#_CUSIP	Every Business Day 6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time as applicable	Issuance	MBS & UMBS	Indefinitely	• PoolTalk - Security Documents
MBS Daily Prepayment Report	FNM_DPR_Fctr_CCYYMM	Wednesday at 4:30 pm	Other	MBS & UMBS	Monthly File - indefinite	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Issuance Loan Level File	FNM_ILLD_YYYYMMDD_1	Every Business Day - 6:30 AM Eastern Time	Issuance	MBS & UMBS	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Issuance Loan Level File	FNM_ILLD_YYYYMMDD_2	Every Business Day - 10:30 AM Eastern Time	Issuance	MBS & UMBS	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Issuance Loan Level File	FNM_ILLD_YYYYMMDD_3	Every Business Day - 1:30 PM Eastern Time	Issuance	MBS & UMBS	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Issuance Loan Level File	FNM_ILLD_YYYYMMDD_4	Every Business Day - 3:30 PM Eastern Time	Issuance	MBS & UMBS	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Issuance File	FNM_IS_YYYYMMDD_1	Every Business Day - 6:30 AM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Issuance File	FNM_IS_YYYYMMDD_2	Every Business Day - 10:30 AM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Issuance File	FNM_IS_YYYYMMDD_3	Every Business Day - 1:30 PM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Issuance File	FNM_IS_YYYYMMDD_4	Every Business Day - 3:30 PM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Supplemental Issuance File	FNM_ISS_YYYYMMDD_1	Every Business Day - 6:30 AM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Supplemental Issuance File	FNM_ISS_YYYYMMDD_2	Every Business Day - 10:30 AM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Intraday Security Supplemental Issuance File	FNM_ISS_YYYYMMDD_3	Every Business Day - 1:30 PM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section

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Business Name	File Name	Publication Timing	Process Cycle	Product	Archive	Location
MBS Intraday Security Supplemental Issuance File	FNM_ISS_YYYYMMDD_4	Every Business Day - 3:30 PM Eastern Time	Issuance	MBS & UMBS Megas & Supers	Month of file disclosure date + 3 proceeding months	• SFTP • PoolTalk - Files & Reports Section
MBS Month-End Issuance Loan Level	FNM_ILLD_YYYYMM	Business Day 1 of Following Month - 6:30 AM Eastern Time	Month-End	MBS & UMBS	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Month-End Issuance Security File	FNM_IS_YYYYMM	Business Day 1 of Following Month - 6:30 AM Eastern Time	Month-End	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Month-End Issuance Security Supplemental File	FNM_ISS_YYYYMM	Business Day 1 of Following Month - 6:30 AM Eastern Time	Month-End	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Monthly Loan Level File	FNM_MLLD_YYYYMM	Business Day 4- 4:30 PM Eastern Time	Monthly	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Monthly Security Factor File	FNM_MF_YYYYMM	Business Day 4- 4:30 PM Eastern Time	Monthly	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Monthly Security Supplemental File	FNM_MS_YYYYMM	Business Day 4- 4:30 PM Eastern Time	Monthly	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Security Issuance Correction File	FNM_RIS_YYYYMM	Business Days 1-4 - 6:30 AM Eastern Time (Only if corrections were applied)	Month-End	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Security Supplemental Issuance Correction File	FNM_RISS_YYYYMM	Business Days 1-4 - 6:30 AM Eastern Time (Only if corrections were applied)	Month-End	MBS & UMBS Megas & Supers	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
MBS Social Disclosures	FNM_ISI_YYYYMMDD	Every Business Day - 11:30 AM Eastern Time File Retired September 1, 2023	Issuance	MBS & UMBS	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
Megas Backed by Ginnie Mae Collateral Factor File	FNM_GN_MEGA_YYYYMM FNM_GN_MEGA_YYYYMM_REV	Business Day 8 at 4:30 PM Eastern Time (Ginnie Mae backed collateral)	Monthly	Megas	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
Mission Index Criteria Attribution (MICA) Version 1.0	FNM_MICA_CusipMapping FNM_MICA_DisclosureSupplement	One time publication	Not Applicable	MBS & UMBS	Indefinitely	• SFTP • PoolTalk - Files & Reports Section

MM and DD in file name represents the posting date in the issuance and monthly files. For the Month-end and the Correction Files, the MM represents the issuance month

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Single-Class Effective Dates
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All applicable data attributes are disclosed for each security except the following attributes which are disclosed for securities issued on or after the below referenced effective dates				
Implementation Date	Effective Date	Loan Level File	Security Level File	Security Supplemental Level File
April 2003	May 1996 Issuances		WA Loan-to-Value (LTV)	Quartiles - Loan-to-Value (LTV)
			WA Borrower Credit Score	Quartiles - Borrower Credit Score
				Quartiles - Updated Credit Score
				Borrower Credit Score Not Available Stratification
				Loan Purpose Stratification
				Loan-to-Value (LTV) Not Available Stratification
				Number of Units Stratification
				Occupancy Status Stratification
September 2007	September 2007 Issuances		Third Party Origination UPB Percent	Channel Stratification
January 2013	January 2013 Issuances	All loan level attributes	WA Combined Loan-to-Value (CLTV)	Quartiles - Combined Loan-to-Value (CLTV)
			WA Debt-to-Income (DTI)	Quartiles - Debt-to-Income
				Combined Loan-to-Value (CLTV) Not Available Stratification
				Debt-to-Income (DTI) Not Available Stratification
				First-Time Homebuyer Indicator Stratification
				Property State Stratification
				Government Insured/Guarantee Stratification
				Mortgage Insurance Cancellation Indicator Stratification
				Mortgage Insurance Coverage Stratification
				Number of Borrowers Stratification
				Property Type Stratification
				Days Delinquent Stratification (for reperforming, step-rate and modified securities only)
June 2019	November 2018		Involuntary Loan Removal (Loan Count)	Days Delinquent Stratification (excluding reperforming, step-rate and modified securities)
			Involuntary Loan Removal (Prior Month UPB)	
March 2020	January 2017 Issuances	Property Valuation Method		Property Valuation Method Stratification
June 2020	All Active Securities (Previously November 2018)		Involuntary Loan Removal (Loan Count)	Days Delinquent Stratification
			Involuntary Loan Removal (Prior Month UPB)	
June 2020	All Active Securities	Borrower Assistance Plan		Borrower Assistance Plan Stratification

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Implementation Date	Effective Date	Loan Level File	Security Level File	Security Supplemental Level File
December 2020	All Active Securities	Alternative Delinquency Resolution Type		Alternative Delinquency Resolution Type Stratification
		Number of Alternative Delinquency Resolutions Type		Number of Alternative Delinquency Resolutions Stratification
		Total Deferral Amount		
March 2021	All Active Securities	Days Delinquent (change to apply to all loans)		
June 2021	All Active Securities	Seller City & State		Seller City & State in Seller Stratification
		Servicer City & State		Servicer City & State in Servicer Stratification
September 2021	Varies by enumeration Home Ready - January 2016 Issuances HFA Preferred - January 2015 Issuances All other enumerations - All Active Securities	Special Eligibility Program		Special Eligibility Program Stratification
December 2022	January 2010 Issuances (MBS/UMBS)		Separate File Social Density Score Social Criteria Share	
March 2023	All Active Securities (in cohorts greater than 500 million)		Daily Prepayment Report	
June 2023	April 2023 Issuances	Property Valuation Method new enumeration - Appraisal Waiver plus Property Data Collection – Condition (“C”)		
August 2023	September 2023 Issuances	Property Valuation Method enumeration (P) renamed from Onsite Property Data Collection to Appraisal Waiver plus Property Data Collection - Value		Property Valuation Method enumeration (P) renamed from Onsite Property Data Collection to Appraisal Waiver plus Property Data Collection - Value
	January 2022 Issuances			Interest Rate Buydown Type Stratification
	January 2010 Issuances (MBS/UMBS)		Social Density Score Social Criteria Share	
December 2023	January 2010 Issuances (Supers/Megas)		Social Density Score Social Criteria Share	

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Implementation Date	Effective Date	Loan Level File	Security Level File	Security Supplemental Level File
March 2024	April 2020 Issuances		Green Indicator	Green Program Criteria Stratification Green Building Certification Stratification Energy Rating Index Stratification Renewable Energy Stratification
	March 2024 Issuances		Mission Density Score (formerly Social Density Score) Mission Criteria Share (formerly Social Criteria Share)	
June 2024	March 2024 Issuances		Social Indicator	
August 2024	All MBS Securities (scored under Mission 1.0 Methodology)		Mission Index Criteria Attribution (MICA) Version 1.0	
September 2024	January 2010 Issuances		Mission Index Version	
November 2024	March 2024 Issuances		Social Indicator populated for re-securitizations (Megs and Supers)	
	December 2024 Issuances			Water Certification Stratification Green Program Criteria new enumeration - Water Certification

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-001	Loan Identifier	The unique designation assigned to the loan by the issuer.		String		12		
L-002	Loan Correction Indicator	The indicator denoting whether any attributes for the loan have changed from previous disclosures.	Y = Yes N = No A = Added D = Deleted	String		1		
L-003	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
L-004	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
L-005	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
L-006	Mortgage Loan Amount	The dollar amount of the loan as stated on the note at the time the loan was originated or modified. For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.		Numeric	9.2	12	Privacy Masking: Amount rounded to nearest thousand if > \$500.	
L-007	Issuance Investor Loan UPB	The unpaid principal balance of the loan as it contributes to the balance of the security at the time the security was issued.		Numeric	9.2	12	Privacy Masking: If loan age ≤ 6 months, UPB rounded to nearest thousand if > \$500.	
L-008	Current Investor Loan UPB	The unpaid principal balance of the loan as it contributes to the current balance of the security. The Current Investor loan UPB is derived from the mortgage balance as reported by the servicer. The Current Investor UPB reflects any scheduled and unscheduled principal reductions applied to the mortgage.		Numeric	9.2	12	•Privacy Masking: If loan age ≤ 6 months, UPB rounded to nearest thousand if > \$500. •File will include the loan when the balance equals zero for one month.	
L-009	Amortization Type	The classification of the loan as having either a fixed- or an adjustable-interest rate at the time the loan was originated or modified.	FRM = Fixed-Rate ARM = Adjustable-Rate	String		3		
L-010	Original Interest Rate	The interest rate of the loan as stated on the note at the time the loan was originated or modified.		Numeric	2.3	6		
L-011	Issuance Interest Rate	The interest rate of the loan in effect at the time the security was issued.		Numeric	2.3	6		
L-012	Current Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
L-013	Issuance Net Interest Rate	The interest rate of the loan at the time the security was issued less servicing fees and guarantor fees.		Numeric	2.3	6		
L-014	Current Net Interest Rate	The interest rate of the loan in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
L-015	First Payment Date	The month and year that the first scheduled payment on the loan is due at the time the loan was originated or modified.		Date	MMCCYY	6		
L-016	Maturity Date	The month and year that the final scheduled payment on the loan is due at the time the loan was originated or modified.		Date	MMCCYY	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-017	Loan Term	For fixed-rate, adjustable-rate and interest-only mortgages, the number of months in which regularly scheduled borrower payments are due at the time the loan was originated or modified.		Numeric		3		
L-018	Remaining Months to Maturity	The number of remaining months that will reduce the Current Investor Loan UPB to zero. For fixed-rate loans, this value takes into account the impact of any curtailments.		Numeric		3		<ul style="list-style-type: none"> For fixed-rate mortgages and interest-only mortgages that are amortizing: <p>Calculation 1: $- (\text{FUNCTION LOG10 (1- (Issuance Investor Loan UPB} * ((\text{Issuance Interest Rate}/1200) / \text{Loan Principal and Interest})))) / \text{FUNCTION LOG10 (1 + (Issuance Interest Rate}/1200))$ </p> <p>Calculation 2: Difference between the Current Factor Date and the Loan Maturity Date.</p> <p>Round up to the nearest integer and use the lower value of the two calculations</p> <ul style="list-style-type: none"> For adjustable-rate mortgages and interest-only mortgages in their interest-only period, use the following calculation: Difference between the Current Factor Date and the Loan Maturity Date.
L-019	Loan Age	The number of scheduled payments from the time the loan was originated or modified, up to and including the current reporting period.		Numeric		3		$((\text{Security Factor Date (MM/YY)} - \text{First Payment Date (MM/YY)}) + 1)$
L-020	Loan-to-Value (LTV)	The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value for a purchase or the property value for a refinance. For modified fixed-rate, modified step-rate loans, and reinstated loans, this value will be blank.		Numeric		3	<ul style="list-style-type: none"> If LTV ratios is < 1% or > 998%, it will be disclosed as "Not Available", indicated by 999. If any of the following criteria is met, the LTV ratio will be disclosed as "Not Available", indicated by 999. <ul style="list-style-type: none"> - The LTV ratio is <1% or >998% - The CLTV ratio is < the LTV ratio - The LTV ratio is "Not Available" 	Purchase: $\text{LTV} = \text{Mortgage Loan Amount} / (\text{Min (Sales Price, Property Value)}) * 100$ Refinance: $\text{LTV} = \text{Mortgage Loan Amount} / \text{Property Value} * 100$ <ul style="list-style-type: none"> Truncate (shortened) to two decimal places, then rounded up to the nearest whole percent.
L-021	Combined Loan-to-Value (CLTV)	The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value for a purchase or the property value for a refinance. For modified fixed-rate, modified step-rate loans, and reinstated loans, this value will be blank.		Numeric		3	<ul style="list-style-type: none"> If CLTV ratios is < 1% or > 998%, it will be disclosed as "Not Available", indicated by 999. The CLTV ratio will be disclosed as "Not Available", indicated by 999: <ul style="list-style-type: none"> - The CLTV ratio is <1% or >998% - The CLTV ratio is < the LTV ratio - The CLTV ratio is "Not Available" 	$\text{Sum of All Outstanding Loan Amounts} / (\text{Min (Sales Price, Property Value)}) * 100$ <ul style="list-style-type: none"> Loan Amounts may include: <ul style="list-style-type: none"> - Original loan amount of the first mortgage, - Drawn portion (outstanding principal balance) of a HELOC, and - Unpaid principal balance of all closed-end subordinate financing

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-022	Debt-to-Income (DTI)	The ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3	If value is < 1 or > 65, it will be disclosed as "Not Available", indicated by 999.	(Borrower Total Monthly Liabilities Amount / Borrower Total Monthly Income Amount) * 100 • Round to nearest integer
L-023	Borrower Credit Score	The standardized credit score used to evaluate borrowers during the loan origination process. The standardized or representative credit score of an individual borrower is either i) the lower of two scores if a score is received from two Credit Score Repositories for the borrower, or ii) the middle of three scores if a score is received from three Credit Score Repositories for the borrower. This evaluation is done for each borrower on the loan. • The lowest representative credit score of all borrowers will be disclosed • For all newly delivered loans, Fannie Mae uses the "Classic" FICO score developed by Fair Isaac Corporation with the range of 300 - 850.		Numeric		4	• If the credit score is < 300 or > 850, the Borrower Credit Score will be disclosed as "Not Available", which will be indicated by 9999. • For modified fixed-rate, modified step-rate loans and reinstated loans, this value will be blank.	
L-024	Filler							
L-025	Filler							
L-026	Filler							
L-027	Number of Borrowers	The number of borrowers who, at the time the loan was originated, are obligated to repay the loan.	1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = 10 99 = Not Available	Numeric		2		
L-028	First-Time Homebuyer Indicator	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer. An individual is to be considered a first-time homebuyer who (1) is purchasing the property; (2) will reside in the property; and (3) had no ownership interest (sole or joint) in a residential property during the three-year period preceding the date of the purchase of the property. In addition, an individual who is a displaced homemaker or single parent also will be considered a first-time homebuyer if he or she had no ownership interest in a principal residence (other than a joint ownership interest with a spouse) during the preceding three-year time period.	Y = Yes N = No 9 = Not Available	String		1		
L-029	Loan Purpose	The classification describing the purpose of the loan.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1		
L-030	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-031	Number of Units	The number of dwelling units in the mortgaged property at the time the loan was originated.	1 = 1 2 = 2 3 = 3 4 = 4 99 = Not Available	Numeric		2		
L-032	Property Type	The classification describing the type of property that secures the loan.	CP = Cooperative CO = Condominium PU = Planned Unit Development SF = Single-Family MH = Manufactured Housing 99 = Not Available	String		2		
L-033	Channel	<p>The origination channel used by the party that delivered the loan to the issuer.</p> <p>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</p> <ul style="list-style-type: none"> • Broker: A loan that is originated under circumstances where a person or firm other than a mortgage loan seller (or its parent company, controlled affiliate, or subsidiary) or lender correspondent is acting as a “broker” and receives a commission for bringing together a borrower and a lender. The broker performs some of the loan processing functions (such as taking loan applications; ordering credit reports and title reports; requesting, appraisals; and verifying a borrower’s income and employment), but does not underwrite the loan, fund the loan at settlement, or service the loan. Typically, the loan is closed in the name of the mortgage loan seller or lender correspondent that commissioned the broker’s services, but may also include so-called “table-funded” loans where the loan is closed in the broker’s name, but is funded by the mortgage loan seller or the lender correspondent. • Correspondent: A loan that is originated by a party other than a mortgage loan seller (or its parent company, controlled affiliate, or subsidiary) and is then sold to a mortgage loan seller. A lender correspondent performs the loan processing functions (such as taking loan applications; ordering credit reports and title reports; requesting appraisals; and verifying a borrower’s income and employment) without the assistance of a broker. The lender correspondent typically underwrites the loan, but correspondent loans may also include loans where the correspondent has not received delegated underwriting authority from a mortgage loan seller and, accordingly, did not underwrite the loan. The lender correspondent funds the loan at settlement, and the loan is closed in the name of the lender correspondent, which may or may not service the loan. • Retail: A loan for which the mortgage loan seller (or, as described in “Retail Origination” below, its parent company, controlled affiliate, or subsidiary) takes the loan application and then processes, underwrites, funds, and sells the loan to Fannie Mae. “Retail Origination” includes a loan that is originated and funded by a parent company, controlled affiliate, or subsidiary of the mortgage loan seller, or closed either in the name of the applicable parent company, controlled affiliate, or subsidiary and sold to the mortgage loan seller or closed in the name of the mortgage loan seller. In any case, the loan is then sold by the mortgage loan seller to Fannie Mae. For loans acquired prior to March 2013, the term “retail” may also, from time to time, include certain loans originated pursuant to a contractual arrangement, specifically approved by Fannie Mae, between a third party and the mortgage loan seller by which the third party may perform one or more of the functions (but not all) related to the origination of the loan, including taking the loan application, processing, underwriting, funding or delivering the loan to Fannie Mae. 	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1		
L-034	Property State	The abbreviation denoting the location of the property securing the loan.		String		2	See Appendix B	
L-035	Seller Name	The name of the entity that sold the loan to the issuer.		String		100	A pool with multiple sellers will display "Multiple"	
L-036	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-037	Mortgage Insurance Percent	The percentage of mortgage insurance coverage obtained at origination in effect at the time the security was issued.	000= No MI 999= Not Available	String		3	When the Mortgage Insurance is cancelled or expired, the Mortgage Insurance Percent is displayed as "000".	
L-038	Mortgage Insurance Cancellation Indicator	The indicator denoting whether the mortgage insurance has been cancelled after the security was issued.	Y = Yes N = No 7 = Not Applicable	String		1		
L-039	Government Insured Guarantee	The classification describing the Government Insured/Guarantee Program, if any, covering the loan.	FH = FHA VA = Veterans Affair RH = Rural Housing IH = Section 184 Indian Home 99 = Not Available	String		2	Applicable only to Government Insured/Guarantee loans.	
L-040	Assumability Indicator	The indicator denoting whether the loan is assumable by another borrower.	Y = Yes N = No	String		1		
L-041	Interest Only Loan Indicator	The indicator denoting whether the loan only requires interest payments for a specified period of time beginning with the first payment date.	Y = Yes N = No	String		1		
L-042	Interest Only First Principal and Interest Payment Date	For interest-only loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6		
L-043	Months to Amortization	For interest-only loans, the number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3	After the first P&I payment date, this value will be set to zero.	Interest Only First P&I Payment Date (MM/YY) - Security Factor Date (MM/YY)
L-044	Prepayment Penalty Indicator	The indicator denoting whether the borrower is subject to a penalty for early payment of principal.	Y = Yes N = No	String		1		
L-045	Prepayment Penalty Total Term	The total number of months that the prepayment penalty may be in effect.	06 = 6 Months 12 = 1 Year 24 = 2 Years 36 = 3 Years 99 = Not Available	String		2		
L-046	Index	For adjustable-rate loans, the description of the index on which adjustments to the interest rate are based.	See Appendix A	String		3	Index description is no longer provided. See Appendix A to translate the index codes to their respective descriptions.	
L-047	Mortgage Margin	For adjustable-rate loans, the number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	77.777 = Not Applicable	
L-048	MBS Margin	For adjustable-rate loans, the mortgage margin less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	77.777 = Not Applicable	Mortgage Margin minus Applicable Fees (Servicing and Guarantor Fees) • Round to third decimal place
L-049	Interest Rate Adjustment Frequency	For adjustable-rate loans, the number of months, excluding any fixed-rate period, between scheduled rate changes.		Numeric		3		
L-050	Interest Rate Lookback	For adjustable-rate loans, the number of calendar days prior to the rate change date used to determine the effective index value required to calculate the next interest rate.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-051	Interest Rate Rounding Method	For adjustable-rate loans, the designation of how the interest rate is rounded when a new interest rate is calculated.	DN = Down NE = Nearest UP = Up NO = No Rounding	String		2		
L-052	Interest Rate Rounding Method Percent	For adjustable-rate loans, the percentage to which the interest rate is rounded when a new interest rate is calculated.	01 = 0.25 02 = 0.125 03 = .01	String		2		
L-053	Convertibility Indicator	The indicator denoting whether the loan has a feature that allows the borrower to convert from an adjustable rate to a fixed rate.	Y = Yes N = No	String		1		
L-054	Initial Fixed Rate Period	For adjustable-rate loans, the number of calendar months between the first full month the loan accrues interest and the first interest rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months	String		2		
L-055	Next Interest Rate Adjustment Date	For adjustable-rate loans, the month and year that the interest rate is next subject to change.		Date	MMCCYY	6		
L-056	Months to Next Interest Rate Adjustment Date	For adjustable-rate loans, the number of months from the current month to the next interest rate change date.		Numeric		3	If the Next Interest Rate Adjustment is in the past, the field will be null.	Next Adjustment Date (MMCCYY) – Security Factor Date (MM/YY)
L-057	Life Ceiling Interest Rate	For adjustable-rate loans, the lifetime maximum interest rate.		Numeric	2.3	6	77.777 = Not Applicable	
L-058	Life Ceiling Net Interest Rate	For adjustable-rate loans, the maximum interest rate less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	77.777 = Not Applicable	Life Ceiling Interest Rate – Applicable Fees (Servicing and Guarantor Fees)
L-059	Life Floor Interest Rate	For adjustable-rate loans, the lifetime minimum interest rate.		Numeric	2.3	6	If the mortgage loans in the MBS pool have no floor other than the mortgage margin, Fannie Mae will populate this field as the margin. 77.777 = Not Applicable	
L-060	Life Floor Net Interest Rate	For adjustable-rate loans, the minimum interest rate less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	If the mortgage loans in the MBS pool have no floor other than the mortgage margin, Fannie Mae will populate this field as the net margin. 77.777 = Not Applicable	Life Floor Interest Rate – Applicable Fees (Servicing and Guarantor Fees)
L-061	Initial Interest Rate Cap Up Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at the first interest rate adjustment date.		Numeric	2.3	6	77.777 = Not Applicable	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-062	Initial Interest Rate Cap Down Percent	For adjustable-rate loans, the maximum number of percentage points the interest rate can adjust downward at the first interest rate change date.		Numeric	2.3	6	77.777 = Not Applicable	
L-063	Periodic Interest Rate Cap Up Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at each interest rate adjustment date after the first interest rate adjustment date.		Numeric	2.3	6	77.777 = Not Applicable	
L-064	Periodic Interest Rate Cap Down Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at each interest rate adjustment date after the first interest rate adjustment date.		Numeric	2.3	6	77.777 = Not Applicable	
L-065	Modification Program	<p>For reperforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.</p> <ul style="list-style-type: none">• Standard Modification: Standard modifications contain features previously included in the Fannie Mae Home Affordable Modification Program (HAMP), Fannie Mae Regular Modification and Fannie Mae Streamlined Modification programs. This program started October 1, 2017 (with early adoption permitted). Legacy disclosures previously disclosed as Flex.• Regular Modification: Regular modifications allowed for a variety of modification types including capitalization of interest and non-interest arrearages, extension of the mortgage term, change in interest rate, and forbearance, but no reduction of principal. Program expired October 1, 2017.• Streamlined Modification: Streamlined modifications include several programs that generally allow capitalization of interest and non-interest arrearages, extension of the mortgage term, change in interest rate, and forbearance. These programs, existed from July 2013 – October 2017 (with earlier adoption permitted) and include Fannie Mae Standard Modifications and Fannie Mae Streamlined Modifications as referenced in Fannie Mae’s Servicing Guide.• Home Affordable Modification Program: HAMP modifications include capitalization of interest and non-interest arrearages, extension of the mortgage term, reduction of interest rates (to a floor of 2%), and in some instances forbearance, but no reduction of principal. The HAMP program applies to mortgage loans originated on or before January 1, 2009 and expired on December 31, 2016.• Other: This category currently comprises of modifications outside of Fannie Mae sponsored programs. Currently, only Bankruptcy Cramdowns are identified in this category. A bankruptcy cramdown is a modification to any terms of the security deed, mortgage or note by a bankruptcy court order.	H = HAMP O = Other R = Regular S = Standard T = Streamlined 9 = Not Available	String		1		
L-066	Modification Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification describing the type of modification.	R = Rate T = Term B = Rate & Term C = Capitalization F = Rate, Term & Forbearance O = Other	String		1		
L-067	Number of Modifications	For reperforming, modified fixed-rate and modified step-rate loans, the number of times the loan has been modified, at the time security was issued.		Numeric		3		
L-068	Total Capitalized Amount	For reperforming, modified fixed-rate and modified step-rate loans, the amount of interest and non-interest arrearages added to the principal balance as of the most recent modification.		Numeric	9.2	12		
L-069	Interest Bearing Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the interest bearing unpaid principal balance at the time of modification.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500.	
L-070	Original Deferred Amount	<p>For reperforming, modified fixed-rate and modified step-rate loans, the non-interest bearing unpaid principal balance at the time of modification.</p> <p>The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.</p>		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500.	Original deferred amount is populated as 0. Deferred amount is populated in current deferred amount.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-071	Current Deferred UPB	For reperforming, modified fixed-rate and modified step-rate loans, the current non-interest bearing unpaid principal balance. The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500.	Original deferred amount is populated as 0. Deferred amount is populated in current deferred amount.
L-072	Loan Age As Of Modification	For reperforming, modified fixed-rate and modified step-rate loans, the number of scheduled payments from the time the loan was originated up to the date of modification.		Numeric		3		Modification Date (MM/YY) – Origination First Payment Date (MM/YY) +1
L-073	Estimated o-Value (ELTV)	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer at the time of issuance.		Numeric		3	If Estimated LTV ratios is < 1% or > 998%, it will be disclosed as "Not Available", indicated by 999.	(Mortgage Modification Amount / property Value) * 100 • Truncate (shorten) to two decimal places, then round up to the nearest whole percent
L-074	Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the most recently available standardized credit score provided at the time of issuance. This represents the most recently available credit score provided by Equifax to Fannie Mae generally in the month of the MBS issuance or within the three months prior to the MBS issuance.		Numeric		4	If credit score is < 300 or > 850, the updated credit Score will be disclosed as "Not Available", which will be indicated by 9999.	
L-075	Filler							
L-076	Interest Rate Step Indicator	The indicator denoting whether the modification includes a step rate.	Y = Yes N = No	String		1		
L-077	Initial Step Fixed-Rate Period	For reperforming, modified step-rate loans, the number of months between the first payment date of the modified loan and the first step rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months	String		2		
L-078	Total Number of Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments per the modification agreement.		Numeric		2		
L-079	Number of Remaining Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2		
L-080	Next Step Rate	For reperforming, modified step-rate loans, the scheduled interest rate in effect at the next step-rate date.		Numeric	2.3	6		
L-081	Terminal Step Rate	For reperforming, modified step-rate loans, the maximum interest rate in effect following the final scheduled interest rate adjustment date. Once the interest rate reaches the Terminal Step Rate, it is fixed for the remaining term of the mortgage.		Numeric	2.3	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-082	Terminal Step Date	For reperforming, modified step-rate loans, the final scheduled date on which the mortgage interest rate is scheduled to increase to its terminal step rate.		Date	MMCCYY	6		
L-083	Step Rate Adjustment Frequency	For reperforming, modified step-rate loans, the number of months between each interest rate adjustment.		Numeric		3		
L-084	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6		
L-085	Months to Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the number of months from the current month to the next date on which the mortgage interest rate increases.		Numeric		3	If no more steps, then the field will be "Null"	Next Step Rate Adjustment Date (MM/YY) – Security Factor Date (MM/YY)
L-086	Periodic Step Cap Up Percent	For reperforming, modified step-rate loans, the maximum percentage points the interest rate may increase at each step rate adjustment date.		Numeric	2.3	6		
L-087	Origination Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the dollar amount of the loan in the security as stated on the note at the time the loans were originated or modified.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500.	Round to the nearest thousand
L-088	Origination Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the interest rate of the loan as stated on the note at the time the loan was originated.		Numeric	2.3	6		
L-089	Origination Amortization Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification of the loan as having either a fixed- or an adjustable-interest rate as stated on the note at the time the loan was originated.	FRM = Fixed-Rate ARM = Adjustable-Rate	String		3		
L-090	Origination Interest Only Loan Indicator	For reperforming, modified fixed-rate and modified step-rate loans, the indicator denoting whether the loan only required interest payments for a specified period of time beginning with the first payment date as stated on the note at the time the loan was originated.	Y = Yes N = No	String		1		
L-091	Origination First Payment Date	For reperforming, modified fixed-rate and modified step-rate loans, the month and year that the first scheduled payment on the loan was due as stated on the note at the time the loan was originated.		Date	MMCCYY	6		
L-092	Origination Maturity Date	For reperforming, modified fixed-rate and modified step-rate loans, the month and year in which the final payment on the loan was scheduled to be made at the time the loan was originated.		Date	MMCCYY	6		
L-093	Origination Loan Term	For reperforming, modified fixed-rate and modified step-rate loans, the number of months in which regularly scheduled borrower payments are due as stated on the note at the time the loan was originated.		Numeric		3		
L-094	Origination Loan-to-Value (LTV)	For reperforming, modified fixed-rate and modified step-rate loans, the ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.		Numeric		3	<ul style="list-style-type: none"> • If Origination LTV ratio is < 1% or >998%, it will be disclosed as "Not Available", indicated by 999. • If any of the following criteria is met, the LTV ratio will be disclosed as "Not Available", indicated by 999. <ul style="list-style-type: none"> - The LTV ratio is <1% or >998% - The CLTV ratio is < the LTV ratio - The LTV ratio is "Not Available" 	Purchase: (Mortgage Loan Amount / (Min (Sales Price, Appraised Value))) * 100 Refinance: (Mortgage Loan Amount / Appraised Value) * 100 <ul style="list-style-type: none"> • Truncate at the 2nd decimal and round up to the higher integer.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-095	Origination Combined Loan-to-Value (CLTV)	For repurforming, modified fixed-rate and modified step-rate loans, the ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property.		Numeric		3	<ul style="list-style-type: none"> • If CLTV ratios is < 1% or > 998%, it will be disclosed as "Not Available", indicated by 999. • The CLTV ratio will be disclosed as "Not Available", indicated by 999: <ul style="list-style-type: none"> - The CLTV ratio is <1% or >998% - The CLTV ratio is < the LTV ratio - The CLTV ratio is "Not Available" 	Sum of All Outstanding Loan Amounts / (Min (Sales Price, Property Value)) * 100 <ul style="list-style-type: none"> • Loan Amounts may include: <ul style="list-style-type: none"> - Original loan amount of the first mortgage, - Drawn portion (outstanding principal balance) of a HELOC, and - Unpaid principal balance of all closed-end subordinate financing
L-096	Origination Debt-to-Income Ratio	For repurforming, modified fixed-rate and modified step-rate loans, the ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated.		Numeric		3	If value is < 1 or > 65, it will be disclosed as "Not Available", indicated by 999.	
L-097	Origination Credit Score	For repurforming, modified fixed-rate and modified step-rate loans, the standardized credit score used to evaluate the borrower during the loan origination process.		Numeric		4	If credit score is < 300 or > 850, the Origination Credit Score will be disclosed as "Not Available", which will be indicated by 9999.	
L-098	Filler							
L-099	Filler							
L-100	Filler							
L-101	Origination Loan Purpose	For repurforming, modified fixed-rate and modified step-rate loans, the classification of the loan as either a purchase money mortgage or a refinance mortgage at the time the loan was originated.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1		
L-102	Origination Occupancy Status	For repurforming, modified fixed-rate and modified step-rate loans, the classification describing the property occupancy status at the time the loan was originated.	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1		

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L-103	Origination Channel	<p>For repereforming, modified fixed-rate and modified step-rate loans, the origination channel used by the party that delivered the loan to the issuer.</p> <ul style="list-style-type: none"> • Broker: A loan that is originated under circumstances where a person or firm other than a mortgage loan seller (or its parent company, controlled affiliate, or subsidiary) or lender correspondent is acting as a "broker" and receives a commission for bringing together a borrower and a lender. The broker performs some of the loan processing functions (such as taking loan applications; ordering credit reports and title reports; requesting, appraisals; and verifying a borrower's income and employment), but does not underwrite the loan, fund the loan at settlement, or service the loan. Typically, the loan is closed in the name of the mortgage loan seller or lender correspondent that commissioned the broker's services, but may also include so-called "table-funded" loans where the loan is closed in the broker's name, but is funded by the mortgage loan seller or the lender correspondent. • Correspondent: A loan that is originated by a party other than a mortgage loan seller (or its parent company, controlled affiliate, or subsidiary) and is then sold to a mortgage loan seller. A lender correspondent performs the loan processing functions (such as taking loan applications; ordering credit reports and title reports; requesting appraisals; and verifying a borrower's income and employment) without the assistance of a broker. The lender correspondent typically underwrites the loan, but correspondent loans may also include loans where the correspondent has not received delegated underwriting authority from a mortgage loan seller and, accordingly, did not underwrite the loan. The lender correspondent funds the loan at settlement, and the loan is closed in the name of the lender correspondent, which may or may not service the loan. • Retail: A loan for which the mortgage loan seller (or, as described in "Retail Origination" below, its parent company, controlled affiliate, or subsidiary) takes the loan application and then processes, underwrites, funds, and sells the loan to Fannie Mae. "Retail Origination" includes a loan that is originated and funded by a parent company, controlled affiliate, or subsidiary of the mortgage loan seller, or closed either in the name of the applicable parent company, controlled affiliate, or subsidiary and sold to the mortgage loan seller or closed in the name of the mortgage loan seller. In any case, the loan is then sold by the mortgage loan seller to Fannie Mae. For loans acquired prior to March 2013, the term "retail" may also, from time to time, include certain loans originated pursuant to a contractual arrangement, specifically approved by Fannie Mae, between a third party and the mortgage loan seller by which the third party may perform one or more of the functions (but not all) related to the origination of the loan, including taking the loan application, processing, underwriting, funding or delivering the loan to Fannie Mae. 	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1		
L-104	Days Delinquent	The number of days for which a mortgage loan has been reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120-149 5 = 150-179 6 = 180-209 7 = 210-239 8 = 240-269 9 = 270-299 10 = 300-329 11 = 330-359 12 = 360-389 13 = 390-419 14 = 420-449 15 = 450-479 16 = 480-509 17 = 510-539 18 = 540-569 19 = 570-599 20 = 600-629 21 = 630-659 22 = 660-689 23 = 690-719 24 = 720+	Numeric		1		Applicable only for monthly disclosure

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-105	Loan Performance History	For reperforming, modified and modified step-rate loans, the coded string of values that describes the previous payment performance of the loan at the time of issuance. This string will contain 36 months of history for reperforming modified and modified step rate loans and 12 months for reinstated loans.	00 = Current 01 = 1 Month 02 = 2 Months 03 = 3 Months 04 = 4 Months 05 = 5 Months 06 = 6 Months 07 = 7 Months 08 = 8 Months 09 = 9 Months 10 = 10 Months 11 = 11 Months 12 = 12 Months 13 = 13 Months 14 = 14 Months 15 = 15 Months 16 = 16 Months 17 = 17 Months 18 = 18 Months 19 = 19 Months 20 = 20 Months 21 = 21 Months 22 = 22 Months 23 = 23 Months 24 = 24 Months 25>= 25 Months & above XX = Unknown YY = Not Expected	String		150	<ul style="list-style-type: none"> • Applicable only for Issuance Disclosure. • The most recently reported activity is located in the last two spaces in the string. • Unknown represents when a loan payment is not available or activity is not reported by servicer. • Not expected represents when a payment is not due (e.g. month prior to first payment date) 	
L-106	Loan Participation Percent	The percentage of the loan that is backing the security.		Numeric	3.2	6		

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-107	Property Valuation Method	<p>The method by which the value of the subject property was obtained.</p> <ul style="list-style-type: none"> • Appraisal: The property value obtained through an appraisal that was completed by a licensed or certified appraiser. • Appraisal Waiver plus Property Data Collection - Condition: The appraisal is waived with the requirement that certain property data is collected onsite by a licensed or certified appraiser or trained data collector to ensure the condition of the property meets the GSE's requirements but is not used to validate the value of the property. • Appraisal Waiver plus Property Data Collection – Value: The appraisal is waived with the requirement that certain property data is collected onsite by a licensed or certified appraiser or trained data collector and used in a proprietary automated valuation model (AVM) to validate the value of the property. • GSE Targeted Refinance Programs: The programs implemented by the GSEs for targeted refinance products. • Appraisal Waiver: An appraisal is not required per applicable Selling Guide or negotiated terms. • Other: Any property valuation method not provided for within the other enumerations. • Not Applicable: Property valuation method not applicable to the related loan product. • Not Available: Property valuation method not available for disclosure. 	<p>A = Appraisal C = Appraisal Waiver plus Property Data Collection – Condition P = Appraisal Waiver plus Property Data Collection – Value R = GSE Targeted Refinance Program W = Appraisal Waiver O = Other 7 = Not Applicable 9 = Not Available</p>	String		1	<ul style="list-style-type: none"> • Appraisal: Includes appraisal types where a licensed or certified appraiser is part of the process. This includes Traditional, Desktop and Hybrid appraisal types. For one-unit properties (excluding Manufactured Housing), the lender receives relief from representations and warranties of property valuation if the Collateral Underwriter risk score is 2.5 or less but must provide representations and warranties on property characteristics and condition. For all other properties, the lender must provide representations and warranties on property valuation, characteristics, and condition. • Appraisal Waiver plus Property Data Collection – Condition: Fannie Mae's Value Acceptance + Property Data (VA + PD) program, in which an appraisal waiver is provided utilizing Fannie Mae's AVM but is contingent on property data being collected by a trained and vetted third party (real estate agent, insurance inspector, appraiser, etc.). The lender reviews the data and warrants the property eligibility; however, the data is not used to evaluate the validity of the lender-provided property value. For VA + PD, the lender receives relief from representations and warranties on property valuation but must provide representations and warranties on property characteristics and condition. • Appraisal Waiver plus Property Data Collection – Value: A Fannie Mae program utilizing an AVM, that uses the property data collected onsite and evaluates the validity (within tolerances) of the lender-provided property value that is generally used in the LTV calculation. For purchase transactions, the Sales Price is the value generally provided by the lender. The lender receives relief from representations and warranties on property valuation but must provide representations and warranties on property characteristics and condition. • GSE Targeted Refinance Programs: Loans in these programs may have received an appraisal, an appraisal waiver, or utilized an AVM to determine the property value. Includes Fannie Mae HARP, Refi Plus or High LTV Refinance loans, and, in the case of commingled Supers, can contain Freddie Mac's Relief Refinance and Enhanced Relief Refinance program loans. RefiNow or Freddie Mac Refi Possible are not included in the program. • Appraisal Waiver (Value Acceptance): Fannie Mae uses data and technology to accept the lender-provided value, allowing lenders to deliver loans for certain eligible transactions to Fannie Mae without an appraisal. The accepted lender provided property value is generally used in the LTV calculation. For purchase transactions, the Sales Price is the value generally provided by the lender. A commingled Supers may contain loans with appraisal waivers granted under Fannie Mae's program and/or under Freddie Mac's program. The lender receives relief from representations and warranties on property valuation, characteristics, and condition. • Other: May include methods such as broker price opinion or tax valuation. • Not Applicable: For Modified Reperforming loans in fixed-rate and step-rate pools, the value will default to Not Applicable. • Not Available: For loans backing pools issued prior to January 1, 2017, the value will default to Not Available. 	

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L-108	Alternative Delinquency Resolutions Type	<p>The loss mitigation solution that resolves delinquencies and helps homeowners remain in their homes in accordance with the servicer's contractual obligation, while allowing the loan to remain in the security.</p> <ul style="list-style-type: none"> • Payment Deferral - For borrowers who have resolved a temporary hardship and can resume making their monthly mortgage payment but cannot afford either a full reinstatement or repayment plan to bring the loan current. At least two and up to six months of past due principal and interest (P&I) payments can be deferred, as well as out-of-pocket escrow advances paid to third parties, and servicing advances paid to third parties in the ordinary course of business and not retained by the servicer, if allowed by state law. The borrower may not defer more than 12 months of cumulative past-due P&I payments over the life of the loan. The amount is deferred into a non-interest-bearing balance due at mortgage loan maturity, or earlier upon the sale or transfer of the property, refinance of the mortgage loan, or payoff of the interest-bearing UPB. • COVID-19 Payment Deferral - For borrowers who experienced a COVID-19 related hardship and can resume making their monthly mortgage payment. Up to 18 months of missed P&I payments can be deferred, as well as out-of-pocket escrow advances paid to third parties, and servicing advances paid to third parties in the ordinary course of business and not retained by the servicer, if allowed by state law. The amount is deferred into a non-interest-bearing balance due at mortgage loan maturity or earlier upon the sale or transfer of the property, refinance of the mortgage loan, or payoff of the interest-bearing UPB. • Disaster Payment Deferral - For borrowers who experienced a disaster related hardship and can resume making their monthly mortgage payment. Up to 12 months of missed P&I payments can be deferred, as well as out-of-pocket escrow advances paid to third parties, and servicing advances paid to third parties in the ordinary course of business and not retained by the servicer, if allowed by state law. The amount is deferred into a non-interest-bearing balance due at mortgage loan maturity or earlier upon the sale or transfer of the property, refinance of the mortgage loan, or payoff of the interest-bearing UPB. • Other - The borrower has executed an Alternative Delinquency Resolution program other than the other provided enumerations. • Not Applicable - An Alternative Delinquency Resolution is not applicable for the related mortgage loan. • Not Available - The Alternative Delinquency Resolution is not available for disclosure. 	<p>P = Payment Deferral C = COVID-19 Payment Deferral D = Disaster Payment Deferral O = Other 7 = Not Applicable 9 = Not Available</p>	String		1	<p>This represents the last reported alternative delinquency resolutions type.</p> <p>Other - Not currently used</p> <p>Not applicable - Loan never had a payment deferral.</p> <p>Updates to standard Payment Deferral were effective for implementation starting July 1, 2023, with mandatory implementation by October 1, 2023. Previously, the borrower could defer only up to two months of missed principal and interest (P&I) payments.</p>	Applicable only for monthly disclosure
L-109	Number of Alternative Delinquency Resolutions	The total number of Alternative Delinquency Resolutions as reported by the servicer for a specific loan.		Numeric		2	Exact number to be disclosed	Applicable only for monthly disclosure
L-110	Total Deferral Amount	The total non-interest-bearing deferral amount related to one or more Alternative Delinquency Resolutions.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500.	Applicable only for monthly disclosure
L-111	Borrower Assistance Plan	<p>The type of assistance plan that the borrower is enrolled in that provides temporary mortgage payment relief or an opportunity to cure a mortgage delinquency over a defined period.</p> <ul style="list-style-type: none"> • Forbearance Plan - An agreement between the servicer and the borrower that reflects the terms of the forbearance, including whether the borrower may make either reduced or no monthly payments for a specific period. • Repayment Plan - An agreement between the servicer and a borrower that gives the borrower a defined period to reinstate the mortgage by paying normal regular payments plus an additional agreed upon amount in repayment of the delinquency. • Trial Period Plan - An agreement, generally lasting three months, that allows the servicer to test the borrower's ability to make a modified loan payment before finalizing the modification. • Other Workout Plan - The borrower is enrolled in a plan other than a forbearance plan, a repayment plan or a trial period plan. • No Workout Plan - The borrower is not enrolled in an alternate plan. • Not Applicable - A Borrower Assistance Plan is not applicable for the related mortgage loan. • Not Available - A Borrower Assistance Plan is not available for disclosure. 	<p>F = Forbearance Plan R = Repayment Plan T = Trial Period Plan O = Other Workout Plan N = No Workout Plan 7 = Not Applicable 9 = Not Available</p>	String		1	<p>The data will be published on a one-month delay due to the timing of our servicing reporting cycle. For example, the values published in July 2020 correspond to the delinquency status in the Days Delinquent published in June 2020.</p> <p>For non-delinquent loans, for which a Borrower Assistance Plan is not reported by the Servicer, this attribute will be defaulted to Not Applicable.</p> <p>The field may be populated if the loan is reported current in days delinquent.</p>	Applicable only for monthly disclosure

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
L-112	Seller City	The city of the address of the entity that sold the loans to the issuer.		String		50		
L-113	Seller State	The state or territory of the address of the entity that sold the loans to the issuer.		String		2	XX will populate for non US states and territories	
L-114	Servicer City	The city of the address of the entity that services the loans.		String		50		
L-115	Servicer State	The state or territory of the address of the entity that services the loans.		String		2	XX will populate for non US states and territories	
L-116	Special Eligibility Program	<p>A mortgage program with expanded eligibility criteria designed to increase and maintain home ownership.</p> <ul style="list-style-type: none"> • Home Ready - An affordable mortgage program designed for eligible, creditworthy borrowers. • HFA Preferred - An affordable, conventional mortgage program available exclusively to housing financing agencies (HFAs) to maximize financing to low-to moderate-income borrowers. • RefiNow - An affordable refinance program designed for eligible, creditworthy borrowers with an existing Fannie Mae-owned mortgage. • Other - A special eligibility program not provided within the other enumerations. • Not Applicable - The special eligibility program disclosure is not applicable to the related loan. • Not Available - The special eligibility program disclosure is not available for the related loan. 	<p>H - Home Ready F - HFA Preferred R - RefiNow O - Other 7 - Not Applicable 9 - Not Available</p>	String		4	Initially enumerations are mutually exclusive, in the future additional enumerations maybe added which are not mutually exclusive.	Modified Loans will default to 7 - Not Applicable.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-01	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
S-02	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
S-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
S-04	Security Factor Date	The month and year on which the corresponding factor is effective.		Date	MMCCYY	6		
S-05	Security Factor	The decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the Current Investor Security UPB amount.		Numeric	1.8	10	<ul style="list-style-type: none"> • Issuance factor would equal to 1.00000000. • The field will be zero in the months when the security factor goes to zero including collapses and dissolves 	(Current Investor Security UPB) / (Issuance Investor Security UPB) <ul style="list-style-type: none"> • Round to eighth decimal
S-06	Payment Delay Days	The indicator denoting whether the loans in the security participate in a 45 day, 55 day or a 75 day payment delay period at the time the security was issued.	45 = 45 Days 55 = 55 Days 75 = 75 Days	Numeric		2	<ul style="list-style-type: none"> • Fannie Mae is 55 only • Supers/Megas populated when collateral is delivered 	
S-07	Security Data Correction Indicator	The indicator denoting the data correction status of the security based on the current reporting period.	Y = Yes N = No	String		1		
S-08	Security Status Indicator	The indicator denoting the status of the security based on the current reporting period.	A = Active P = Paid off C = Collapsed D = Dissolved	String		1		
S-09	Security Notification Indicator	The indicator denoting whether the disclosure is preliminary and subject to change or final.	P = Preliminary F = Final 7 = Not Applicable	String		1	Monthly File will display 7	
S-10	Security Description	The unique designation of the security including abbreviated FED code, WA Net Interest Rate, Prefix and Security Identifier.		String		22		
S-11	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae FRE = Freddie Mac	String		3		
S-12	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8		
S-13	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6		
S-14	Updated Longest Maturity Date	The updated month and year in which the final payment on the security is scheduled to be made based on the longest maturity date of the remaining loans in the security.		Date	MMCCYY	6	Applicable only for Monthly Disclosure.	
S-15	Issuance Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17		
S-16	Current Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the current balance of the security.		Numeric	14.2	17	The field will be zero in the months when the security factor goes to zero, including collapses and dissolves.	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-17	WA Net Interest Rate	The weighted average interest rate of the loans less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6		$\frac{(\text{Sum} ((\text{Net Interest Rate}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-18	WA Issuance Interest Rate	The weighted average interest rate of the loans in effect at the time the security was issued.		Numeric	2.3	6		$\frac{(\text{Sum} ((\text{Interest Rate}) * (\text{Issuance Investor Loan UPB})))}{(\text{Sum} (\text{Issuance Investor Loan UPB}))}$
S-19	WA Current Interest Rate	The weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	During the month of issuance, the WA Issuance Interest Rate value would be the same as the Current WA Interest Rate value.	$\frac{(\text{Sum} ((\text{Interest Rate}) * (\text{Current Investor Loan UPB})))}{(\text{Sum} (\text{Current Investor Loan UPB}))}$
S-20	WA Net Accrual Interest Rate	For adjustable-rate loans, the weighted average Interest Rate less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	The net interest rate schedule to pay in the following month.	$\frac{(\text{Sum} ((\text{Net Accrual Interest Rate}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-21	WA Loan Term	The weighted average number of months in which regularly scheduled borrower payments are due.		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Term}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-22	WA Issuance Remaining Months to Maturity	<p>The weighted average of number of remaining months that will reduce the Current Investor Loan UPB to zero, at the time the security was issued.</p> <p>For fixed-rate loans, this value takes into account the impact of any curtailments.</p>		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Remaining Months to Maturity}) * (\text{Issuance Investor Loan UPB})))}{(\text{Sum} (\text{Issuance Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer
S-23	WA Current Remaining Months to Maturity	<p>The weighted average of number of remaining months that will reduce the Current Investor Loan UPB to zero.</p> <p>For fixed-rate loans, this value takes into account the impact of any curtailments.</p>		Numeric		3	During the month of issuance, the WA Issuance Remaining Months to Maturity value would be the same as the WA Current Remaining Months to Maturity value	$\frac{(\text{Sum} ((\text{Loan Remaining Months to Maturity}) * (\text{Current Investor Loan UPB})))}{(\text{Sum} (\text{Current Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-24	WA Loan Age	The weighted average number of months from the time the loans were originated or modified up to and including the current reporting period.		Numeric		3	Value can be negative	$\frac{(\text{Sum} ((\text{Loan Age}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-25	WA Mortgage Loan Amount	<p>The weighted average dollar amount of the loans, as stated on the notes, at the time the loans were originated or modified.</p> <p>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</p>		Numeric	9.2	12	<p>The input values are masked in the calculation.</p> <ul style="list-style-type: none"> Mortgage Loan Amount is rounded to the nearest thousand If Mortgage Loan Amount < \$500, set to actual value 	$\frac{(\text{Sum} ((\text{Mortgage Loan Amount}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. Round to the second decimal
S-26	Average Mortgage Loan Amount	<p>The simple average dollar amount of the loans as stated on the notes, at the time the loans were originated or modified.</p> <p>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</p>		Numeric	9.2	12	<p>The input values are masked in the calculation.</p> <ul style="list-style-type: none"> Mortgage Loan Amount is rounded to the nearest thousand If Mortgage Loan Amount < \$500, set to actual value 	$\frac{(\text{Sum} (\text{Mortgage Loan Amount}))}{(\text{Count} (\text{Loans in Pool}))}$ <ul style="list-style-type: none"> For Loan Count in Pool, the issuance file calculation is based upon the issuance date loan count and the monthly file calculation is based upon the current loan count. Round to the second decimal
S-27	WA Loan-to-Value (LTV)	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the value of the properties.</p> <p>Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance.</p> <p>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</p>		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{LTV Ratio}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer A loan with LTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA LTV calculation. If all loans have a LTV of 999, then the WA LTV will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-28	WA Combined Loan-to-Value (CLTV)	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the properties.</p> <p>Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance.</p> <p>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</p>		Numeric		3	999 = Not Available	<p>$(\text{Sum} ((\text{CLTV Ratio}) * (\text{Investor Loan UPB}))) / (\text{Sum} (\text{Investor Loan UPB}))$</p> <ul style="list-style-type: none"> Round to the nearest integer A loan with CLTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA CLTV calculation. If all loans have a CLTV of 999, then the WA CLTV will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
S-29	WA Debt-to-Income (DTI)	The weighted average ratio obtained by dividing the total monthly debt expenses by the total monthly incomes of the borrowers at the time the loans were originated or modified.		Numeric		3	999 = Not Available	<p>$(\text{Sum} ((\text{DTI}) * (\text{Investor Loan UPB}))) / (\text{Sum} (\text{Investor Loan UPB}))$</p> <ul style="list-style-type: none"> Round to the nearest integer A loan with DTI < 1 or > 65 and disclosed as "Not Available", indicated by 999, will be excluded from the security WA DTI calculation. If all loans have a DTI of 999, the the WA DTI will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
S-30	WA Borrower Credit Score	The weighted average standardized credit score used to evaluate the borrower during the loan origination process.		Numeric		4	9999 = Not Available	<p>$(\text{Sum} ((\text{Borrower Credit Score}) * (\text{Investor Loan UPB}))) / (\text{Sum} (\text{Investor Loan UPB}))$</p> <ul style="list-style-type: none"> Round to the nearest integer A loan with Borrower Credit Score < 300 or > 850 and disclosed as "Not Available", indicated by 9999, will be excluded from the security WA Borrower Credit Score calculation. If all loans have a Borrower Credit Score of 9999, then the WA Borrower Credit Score will be 9999. The issuance file calculation is based upon the Issuance Investor Loan UPB. The monthly file calculation is based upon the Scheduled Investor Loan UPB.
S-31	Filler							
S-32	Filler							
S-33	Loan Count	The total number of loans in the security.		Numeric		9		Sum the number of loans where Investor Loan UPB > zero

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-34	Third Party Origination UPB Percent	The percentage of the aggregate Investor Loan UPB that were originated by a third party, to include Broker and Correspondent originations. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric	3.2	6		(Sum (Investor Loan UPB for Channel = Broker) + (Investor Loan UPB for Channel = Correspondent)) / (Sum (Investor Loan UPB)) •For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
S-35	Seller Name	The name of the entity that sold the loans to the issuer.		String		100	•For securities with more than one Seller, this field will reflect MULTIPLE. •For Megas/Supers, this field will reflect the value of SCR (Single-Class Resecuritization).	
S-36	Seller City	The city of the address of the entity that sold the loans to the issuer.		String		50	For securities/Megas/Supers with more than one Seller, the field will be blank.	
S-37	Seller State	The state or territory of the address of the entity that sold the loans to the issuer.		String		2	For securities/Megas/Supers with more than one Seller, the field will be blank. XX will populate for non US states and territories	
S-38	Servicer Name	The name of the entity that sold the loans to the issuer during the current reporting period.		String		100	•For securities with more than one Servicer, this field will reflect MULTIPLE. •For Megas/Supers, this field will reflect the value of SCR (Single-Class Resecuritization).	
S-39	Servicer City	The city of the address of the entity that services the loans.		String		50	For securities/Megas/Supers with more than one Servicer, the field will be blank.	
S-40	Servicer State	The state or territory of the address of the entity that services the loans.		String		2	For securities/Megas/Supers with more than one Servicer, the field will be blank. XX will populate for non US states and territories	
S-41	Involuntary Loan Removal (Prior Month UPB)	For the current reporting period, the aggregate prior period Investor UPB of loans removed from the security for involuntary reasons including delinquencies, loss mitigation efforts and lender repurchases.		Numeric	14.2	17	Applicable only for Monthly Disclosure.	
S-42	Involuntary Loan Removal (Loan Count)	For the current reporting period, the number of loans removed from the security for involuntary reasons including loan delinquencies, loss-mitigation efforts and lender repurchases.		Numeric		9	Applicable only for Monthly Disclosure.	
S-43	Eligible for Resecuritization	The indicator denoting whether the security is eligible for resecuritization.	Y = Yes N = No	String		1		
S-44	Notes	Additional information about the loans in the security.		String		2048		
S-45	Notes Ongoing	Additional information about the loans in the security.		String		2048	Applicable only for Monthly Disclosure.	
S-46	Interest Only Security Indicator	The indicator denoting whether the loans only require interest payments for a specified period of time beginning with the first payment date.	Y = Yes N = No 5 = Mixed	String		1		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-47	WA Months to Amortization	For interest-only loans, the weighted average number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3		$\frac{(\text{Sum}((\text{Months to Amortization}) * (\text{Investor Loan UPB})))}{(\text{Sum}(\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to nearest integer • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-48	Prepayment Penalty Indicator	The indicator denoting whether the security is subject to a penalty for early payment of principal.	Y = Yes N = No 5 = Mixed 9 = Not Available	String		1		
S-49	Reduced Minimum Servicing Indicator	The indicator denoting whether the loans in the security may have a reduced servicing fee.	Y = Yes N = No 9 = Not Available	String		1		
S-50	Subtype	For an adjustable-rate mortgage, the code that identifies ARM product characteristics and features.		String		20		
S-51	Index	For adjustable-rate loans, the description of the index on which adjustments to the interest rate are based.	See Appendix A	String		3		
S-52	WA Mortgage Margin	For adjustable-rate loans, the weighted average number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	77.777 = Not Applicable	$\frac{(\text{Sum}((\text{Mortgage Margin}) * (\text{Investor Loan UPB})))}{(\text{Sum}(\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. • If all loan level values = 77.777, then set to 77.777; else exclude from weighted average calculation.
S-53	WA MBS Margin	For adjustable-rate loans, the weighted average mortgage margin less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	77.777 = Not Applicable	$\frac{(\text{Sum}((\text{MBS Margin}) * (\text{Investor Loan UPB})))}{(\text{Sum}(\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. • If all loan level values = 77.777, then set to 77.777; else exclude from weighted average calculation.
S-54	Interest Rate Adjustment Frequency	For adjustable-rate loans, the number of months, excluding any fixed-rate period, between scheduled rate changes.		Numeric		3	555 = Mixed	
S-55	Interest Rate Lookback	For adjustable-rate loans, the number of calendar days prior to the interest rate adjustment date used to determine the effective index value required to calculate the next interest rate.		Numeric		3	555 = Mixed	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-56	Payment Adjustment Frequency	For negative amortizing adjustable-rate loans, the number of months between scheduled payment changes. For a security with an initial fixed-rate period, the payment adjustment frequency is the number of months between subsequent payment changes.		Numeric		3	555 = Mixed	
S-57	Payment Lookback	For negative amortizing adjustable-rate loans, the number of days prior to a payment effective date used to determine value when calculating a principal and interest payment.		Numeric		3	999 = Not Available	
S-58	Convertibility Indicator	For adjustable-rate loans, the indicator denoting whether the loans in the security have a feature that allows the borrower to convert from an adjustable rate to a fixed rate.	Y = Yes N = No 5 = Mixed 9 = Not Available	String		1		
S-59	Negative Amortization Indicator	For adjustable-rate loans, the indicator denoting whether the loans in the security allow negative amortization.	Y = Yes N = No 5 = Mixed 9 = Not Available	String		1		
S-60	Negative Amortization Factor	For negative amortizing adjustable-rate loans, the decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the negative amortization amount.		Numeric	1.8	10		(Negative Amortization UPB) / (Issuance UPB) • Round to 8th decimal
S-61	WA Negative Amortization Limit	For negative amortizing adjustable-rate loans, the weighted average Negative Amortization Limit of the loans in the security.		Numeric	3.3	7	777.777 = Not Applicable 999.999 = Not Available	
S-62	Initial Fixed Rate Period	For adjustable-rate loans, the number of calendar months between the first full month the loans accrue interest and the first interest rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months 55 = Mixed	String		2		(Sum ((Negative Amortization Limit) * (Investor Loan UPB))) / (Sum (Investor Loan UPB)) • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-63	First Rate Adjustment Date	For adjustable-rate loans, the earliest first rate adjustment date of the loans in the security.		Date	MMCCYY	6		
S-64	First Payment Adjustment Date	For adjustable-rate loans, the earliest first payment adjustment date of the loans in the security.		Date	MMCCYY	6	Applicable only for Fannie Mae issued securities	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-65	WA Months to Next Rate Adjustment Date	For adjustable-rate loans, the weighted average number of months from the current month to the next interest rate adjustment date.		Numeric		3		$\frac{\text{Sum ((Months to Next Adjustment Date) * (Investor Loan UPB))}}{\text{Sum (Investor Loan UPB)}}$ <ul style="list-style-type: none"> • Round to nearest integer • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-66	WA Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average lifetime maximum interest rate.		Numeric	2.3	6	77.777 = Not Applicable	$\frac{\text{Sum ((Life Ceiling Interest Rate) * (Investor Loan UPB))}}{\text{Sum (Investor Loan UPB)}}$ <ul style="list-style-type: none"> • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. • If all loan level values = 77.777, set WA Life Interest Rate to 77.777; else exclude from weighted average calculation.
S-67	WA Net Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average maximum interest rate less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	77.777 = Not Applicable	$\frac{\text{Sum ((Life Ceiling Net Interest Rate) * (Investor Loan UPB))}}{\text{Sum (Investor Loan UPB)}}$ <ul style="list-style-type: none"> • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB. • If all loan level values = 77.777, set WA Net Life Interest Rate Ceiling to 77.777; else exclude from weighted average calculation.
S-68	WA Life Interest Rate Floor	For adjustable-rate loans, the weighted average lifetime minimum interest rate.		Numeric	2.3	6	<p>If the mortgage loans in the MBS pool have no floor other than the mortgage margin, Fannie Mae will populate this field with the margin.</p> <p>77.777 = Not Applicable</p>	$\frac{\text{Sum ((Life Floor Interest Rate) * (Investor Loan UPB))}}{\text{Sum (Investor Loan UPB)}}$ <ul style="list-style-type: none"> • Round to the third decimal place • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. • If all loan level values = 77.777, set WA Life Interest Rate Floor to 77.777; else exclude from weighted average calculation.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-69	WA Net Life Interest Rate Floor	For adjustable-rate loans, the weighted average minimum interest rate less applicable fees (servicing fees and guarantor fees).		Numeric	2.3	6	If the mortgage loans in the MBS pool have no floor other than the mortgage margin, Fannie Mae will populate this field with the MBS margin. 77.777 = Not Applicable	$\frac{(\text{Sum} ((\text{Life Floor Net Interest Rate}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the third decimal place For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. If all loan level values = 77.777, set WA Net Life Interest Rate Ceiling to 77.777.
S-70	Initial Interest Rate Cap Up %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at the first interest rate adjustment date.		Numeric	2.3	6	55.555 = Mixed 77.777 = Not Applicable	
S-71	Initial Interest Rate Cap Down %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at the first interest rate adjustment date.		Numeric	2.3	6	55.555 = Mixed 77.777 = Not Applicable	
S-72	Periodic Interest Rate Cap Up %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at each interest rate adjustment date after the first interest rate adjustment date.		Numeric	2.3	6	55.555 = Mixed 77.777 = Not Applicable	
S-73	Periodic Interest Rate Cap Down %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at each interest rate adjustment date after the first interest rate adjustment date.		Numeric	2.3	6	55.555 = Mixed 77.777 = Not Applicable	
S-74	Initial Step Fixed-Rate Period	For reperforming, modified step-rate loans, the number of months between the first payment date of the modified loan and the first step rate adjustment.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months 55 = Mixed	String		2		
S-75	Step Rate Adjustment Frequency	For reperforming, modified step-rate loans, the number of months between each interest rate adjustment.		Numeric		3	555 = Mixed	
S-76	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is next scheduled to increase.		Date	MMCCYY	6		

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-77	WA Months to Next Step Rate Adjustment	For reperforming, modified step-rate loans, the weighted average number of months from the current month to the next date on which the mortgage interest rate increases.		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Months to Next Step Rate Adjustment Date}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to nearest integer • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-78	Periodic Step Rate Cap Up %	For reperforming, modified step-rate loans, the maximum percentage points the interest rate may increase at each step rate adjustment date.		Numeric	2.3	6	55.555 = IMixed	
S-79	WA Origination Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average dollar amount of the loans in the security as stated on the notes at the time the loans were originated.		Numeric	9.2	12	<p>The input values are masked in the calculation.</p> <ul style="list-style-type: none"> • Origination Mortgage Loan Amount is rounded to the nearest thousand • If Origination Mortgage Loan Amount < \$500, set to actual value 	$\frac{(\text{Sum} ((\text{Origination Mortgage Loan Amount}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • If the Origination Mortgage Loan Amount is invalid, the loan is excluded from the WA Mortgage Origination Loan Amount calculation. • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB. • Round to the second decimal
S-80	Average Origination Mortgage Loan Amount	<p>For reperforming, modified fixed-rate and modified step-rate loans, the simple average dollar amount of the loans in the security as stated on the notes at the time the loans were originated.</p> <p>This value represents both the interest bearing and non-interest bearing amount.</p>		Numeric	9.2	12	<p>The input values are masked in the calculation.</p> <ul style="list-style-type: none"> • Origination Mortgage Loan Amount is rounded to the nearest thousand • If Origination Mortgage Loan Amount < \$500, set to actual value 	$\frac{(\text{Sum} (\text{Origination Mortgage Loan Amount}))}{(\text{Count} (\text{Loans in Pool}))}$ <ul style="list-style-type: none"> • If the Origination Mortgage Loan Amount is invalid, the loan is excluded from the Origination Average Loan Amount calculation. • For loan count in pool, the issuance file calculation is based upon the issuance date loan count and the monthly file calculation is based upon the current loan count. • Round to the second decimal
S-81	WA Origination Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average interest rate of the loans as stated on the note at the time the loans were originated.		Numeric	2.3	6		$\frac{(\text{Sum} ((\text{Origination Interest Rate}) * (\text{Current Investor Loan UPB})))}{(\text{Sum} (\text{Current Investor Loan UPB}))}$
S-82	WA Origination Loan Term	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average number of months in which regularly scheduled borrower payments are due as stated on the note at the time the loans were originated.		Numeric		3		$\frac{(\text{Sum} ((\text{Origination Loan Term}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to the nearest integer • The issuance file calculation is based upon the Issuance Investor Loan UPB. The monthly file calculation is based upon the Scheduled Investor Loan UPB.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-83	WA Origination Loan-to-Value (LTV)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the values of the properties. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance.		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{Loan LTV Ratio}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer A loan with Origination LTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA Origination LTV calculation. If all loans have an Origination LTV of 999, then the WA Origination LTV will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
S-84	WA Origination Combined Loan-to-Value (CLTV)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance.		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{Origination CLTV Ratio}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer A loan with Origination CLTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA Origination CLTV calculation. If all loans have an Origination CLTV of 999, then the WA Origination CLTV will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
S-85	WA Origination Debt-to-Income (DTI)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated.		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{Origination DTI Ratio}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer A loan with Origination DTI < 1 or > 65 and disclosed as "Not Available", indicated by 999, will be excluded from the security WA Origination DTI calculation. If all loans have an Origination DTI of 999, then the WA Origination DTI will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-86	WA Origination Credit Score	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average standardized credit score used to evaluate the borrower during the loan origination process.		Numeric		4	9999 = Not Available	$\frac{(\text{Sum} ((\text{Origination Credit Score}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to the nearest integer • A loan with Origination Credit Score < 300 or > 850 and disclosed as "Not Available", indicated by 9999, will be excluded from the security WA Origination Credit Score calculation. If all loans have an Origination Credit Score of 9999, then the WA Origination Credit Score will be 9999. • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-87	Filler							
S-88	Filler							
S-89	Origination Third Party Origination UPB Percent	For reperforming, modified fixed-rate and modified step rate loans, the percentage of the aggregate Investor Loan UPB that was originated by a third party, to include Broker and Correspondent originations.		Numeric	3.2	6		$\frac{\text{Sum} (\text{Investor Loan UPB for Origination Channel} = \text{Broker}) + (\text{Investor Loan UPB for Origination Channel} = \text{Correspondent})}{(\text{Sum} (\text{Investor Loan UPB}))}$
S-90	WA Estimated Loan-to-Value (ELTV)	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer at the time of issuance.		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{Estimated LTV Ratio}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> • Round to the nearest integer • A loan with ELTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA Estimated LTV calculation. If all loans have an ELTV of 999, then the WA ELTV will be 999. • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-91	WA Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average most recently available standardized credit score provided at the time of issuance.		Numeric		4	9999 = Not Available	$\frac{\text{Sum}((\text{Updated Credit Score}) * (\text{Investor Loan UPB}))}{\text{Sum}(\text{Investor Loan UPB})}$ <ul style="list-style-type: none"> Round to the nearest integer A loan with Updated Credit Score < 300 or > 850 and disclosed as "Not Available", indicated by 9999, will be excluded from the security WA Updated Credit Score calculation. If all loans have a Updated Credit Score of 9999, then the WA Updated Credit Score will be 9999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
S-92	Mission Density Score	<p>A score representing the number of Mission Dimensions for which each mortgage loan qualifies.</p> <p>There are three possible dimensions. The first Mission Dimension represents if a borrower(s) meets the requirements of a "Low-Income Borrower" or "Affordable Rental." The second Mission Dimension represents if a borrower(s) meets the requirements of a "Borrower Residing in Underserved Markets," "Special Purpose Credit Program (SPCP) Borrower," or "First-Time Homebuyer". The third Mission Dimension represents if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," "Designated Disaster Area," or "Manufactured Housing" mortgage loan. The loan may meet multiple criteria within a dimension but will only receive a maximum count of one for that dimension.</p>		Numeric	1.2	4	<p>The maximum score will be 2.5 to address privacy concerns in cases where all three Mission Dimensions are met.</p> <ul style="list-style-type: none"> For UMBS and MBS, the score reflects the simple average of the number of Mission Dimensions for which each mortgage loan qualifies. For Supers and Megs, the score represents the weighted-average of the issuance scores of all the underlying securities, based on the underlying securities' participating Current Investor Security Balance. <p>The Mission Density Score (MDS) will be unscored and defaulted to 7.77 (Not Applicable) for a security if:</p> <ul style="list-style-type: none"> the at-issuance non-second home loan count is less than 10, the security is a reperforming or modified pool, all the underlying securities for a Super or Mega are reperforming or modified pools. <p>The Mission Density Score will be defaulted to 9.99 (Not Available) if:</p> <ul style="list-style-type: none"> the security was issued prior to 2010, all the underlying securities for a Super or Mega were issued prior to 2010. <p>For Supers and Megs only:</p> <ul style="list-style-type: none"> If the underlying security was issued prior to January 2010, the MDS of the underlying security will be treated as zero in the calculation. If the underlying security is a reperforming or modified pool, the MDS of the underlying security will be treated as zero in the calculation. If the aggregated at-issuance non-second home loan count of all underlying unscored securities (excluding reperforming or modified pools) is less than 10, the MDS of the underlying unscored securities will be treated as zero in the calculation. If the aggregated at-issuance non-second home loan count of all underlying unscored securities (excluding reperforming or modified pools) is 10 or greater, the actual MDS of the underlying unscored securities will be included in the calculation even though the score was not previously disclosed. 	<p>UMBS/MBS: Sum (Loan Social Dimensions for all loans)/aggregate loan count</p> <p>Supers/Megas: $\frac{\text{SUM}((\text{MBS MDS}) * (\text{Participating Current Investor Security Balance}))}{\text{Sum}(\text{Participating Current Investor Security Balance})}$</p>

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
S-93	Mission Criteria Share	<p>The percentage of loans in the security that satisfies at least one Mission Dimension.</p> <p>There are three possible dimensions. The first Mission Dimension represents if a borrower(s) meets the requirements of a "Low-Income Borrower" or "Affordable Rental." The second Mission Dimension represents if a borrower(s) meets the requirements of a "Borrower Residing in Underserved Markets," "Special Purpose Credit Program (SPCP) Borrower," or "First-Time Homebuyer." The third Mission Dimension represents if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," "Designated Disaster Area," or "Manufactured Housing" mortgage loan. The loan may meet multiple criteria within a dimension but will only receive a maximum count of one for that dimension.</p>		Numeric	3.2	6	<p>For Supers and Megas, the score represents the weighted-average of the issuance scores of all the underlying securities, based on the underlying securities' participating Current Investor Security Balance.</p> <p>The Mission Criteria Share (MCS) will be unscored and defaulted to 777.77 (Not Applicable) for a security if:</p> <ul style="list-style-type: none"> the at-issuance non-second home loan count is less than 10, the security is a reperforming or modified pool, all the underlying securities for a Super or Mega are reperforming or modified pools. <p>The Mission Criteria Share will be defaulted to 999.99 (Not Available) if:</p> <ul style="list-style-type: none"> the security was issued prior to 2010, all the underlying securities for a Super or Mega were issued prior to 2010. <p>For Supers and Megas only:</p> <ul style="list-style-type: none"> If the underlying security was issued prior to 2010, the MCS of the underlying security will be treated as zero in the calculation. If the underlying security is a reperforming or modified pool, the MCS of the underlying security will be treated as zero in the calculation. If the aggregated at-issuance non-second home loan count of all underlying unscored securities (excluding reperforming or modified pools) is less than 10, the MCS of the underlying unscored securities will be treated as zero in the calculation. If the aggregated at-issuance non-second home loan count of all underlying unscored securities (excluding reperforming or modified pools) is 10 or greater, the actual MCS of the underlying unscored securities will be included in the calculation even though the score was not previously disclosed. 	<p>UMBS/MBS: Sum (Number of loans with Social Dimension >=1)/aggregate loan count</p> <p>Supers/Megas: (SUM((MBS MCS)*(Participating Current Investor Security Balance)))/(Sum(Participating Current Investor Security Balance))</p>
S-94	Green Indicator	The indicator denoting whether the security is labeled Green MBS secured by loans that are eligible per Fannie Mae's Green Bond Framework.	Y = Yes N = No	String		1	<p>Applicable for Single-Class securities only (no rescritizations). Resecritizations are defaulted to N (No).</p> <p>The MBS must have 100% green eligible loans.</p>	
S-95	Social Indicator	The indicator denoting whether the security is labeled a Social MBS secured by loans that are eligible per Fannie Mae's Social Bond Framework.	Y = Yes N = No 9 = Not Available	String		1	<p>The value of Yes (Y) will be populated for a security with a MCS = 100% and a MDS >= 2.0.</p> <p>The value of 9 (Not Available) will be populated for a Majors pool until the Security Notification Indicator is set to Final (F).</p> <p>Securities with Mission Index Scores based on the Misson Index Version 1.1 are only eligible to receive a Y (Yes) enumeration for Social Indicator.</p> <p>Megas and Supers will receive a Y (Yes) enumeration if the ultimate underlying MBS have an indicator of Y (Yes).</p>	
S-96	Mission Index Version	The version of the Mission index methodology used to calculate the Mission Criteria Share and the Mission Density Score.	V1.0 V1.1 555 = Mixed 777 = Not Applicable				<p>Version 1.1 - Effective for MBS/UMBS securities issued beginning March 2024.</p> <p>Version 1.0 - Effective for MBS/UMBS securities issued from January 2010 through February 2024.</p>	

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Security Supplemental File Record Type Description			
Record Type No.	Record Type Description	Record Type No.	Record Type Description
1	Quartiles	29	Number of Modifications Stratification
2	Next Interest Rate Adjustment Date	30	Deferred Unpaid Principal Balance Stratification
3	Loan-Value (LTV) Not Available Stratification	31	Estimated Loan-to-Value (ELTV) Not Available Stratification
4	Combined Loan-to-Value (CLTV) Not Available Stratification	32	Updated Credit Score Not Available Stratification
5	Debt-to-Income (DTI) Not Available Stratification	33	Number of Remaining Steps Stratification
6	Borrower Credit Score Not Available Stratification	34	Number of Steps - At Modification Stratification
7	Days Delinquent Stratification	35	Next Step Rate Adjustment Date Stratification
8	Number of Borrowers Stratification	36	Origination Loan-to-Value (LTV) Not Available Stratification
9	First Time Homebuyer Stratification	37	Origination Combined Loan-to-Value (CLTV) Not Available Stratification
10	Loan Purpose Stratification	38	Origination Debt-to-Income (DTI) Not Available Stratification
11	Occupancy Status Stratification	39	Origination Borrower Credit Score Not Available Stratification
12	Number of Units Stratification	40	Origination Loan Purpose Stratification
13	Property Type Stratification	41	Origination Occupancy Status Stratification
14	Channel Stratification	42	Borrower Payment History Stratification
15	Property State Stratification	43	Collateral List
16	Seller Name Stratification	44	Property Valuation Method Stratification
17	Servicer Name Stratification	45	Borrower Assistance Plan Stratification
18	Mortgage Insurance Coverage Stratification	46	Alternative Delinquency Resolutions Type
19	Mortgage Insurance Cancellation Indicator Stratification	47	Number of Alternative Delinquency Resolutions
20	Government Insured/Guarantee Stratification	48	Borrower Assistance Plan History Stratification
21	Interest Only First Principal and Interest Payment Date Stratification	49	Special Eligibility Program Stratification
22	Not Paying Principal in First Distribution Stratification	50	Interest Rate Buydown Type Stratification
23	Origination Year Stratification	51	Green Program Criteria Stratification
24	Origination Channel Stratification	52	Green Building Certification Stratification
25	Non-Standard Loan Type Stratification	53	Energy Rating Index Stratification
26	Modification Program Stratification	54	Renewable Energy Stratification
27	Modification Type Stratification	55	Water Certification Stratification
28	Modification Information Stratification		

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Record Type Calculations
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Applicable Stratified Variable	
Quartile	For each mortgage loan characteristic where quartile levels appear, each loan in the pool is ranked from the highest to the lowest value. For example, in the case of Loan-to-Value (LTV) ratios, each loan in the pool is ranked from that with the highest LTV ratio to that with the lowest LTV ratio. The lowest LTV ratio would appear in the pool statistics under "MIN." The next figure in the quartile table for such mortgage loan characteristic is determined by counting the loans starting with the lowest value and continuing upward until the Investor Loan Unpaid Principal Balance (UPB) of the loans counted equals twenty-five percent of the Investor Loan UPB of all the loans in the pool. The value associated with the last loan counted appears in the quartile-level distribution table under "25%." Likewise, the next figures in the quartile-level distribution table are determined by again counting all of the loans starting with the lowest value and continuing upward until the Investor Loan UPB of the loans counted equal fifty percent of the Investor Loan UPB of all the loans in the pool. This process is repeated to determine the value in the quartile-level distribution table associated with seventy-five percent. The values of the last loan counted in each case appear in the quartile-level distribution table under "MED" and "75%," respectively. The highest such value for any mortgage loan in a pool appears in the quartile-level distribution table under "MAX."
Aggregate Loan Count	Count (Loans in Stratification)
Percentage Loan Count	$(\text{Count (Loans in Stratification)}) / (\text{Count (Loans in Pool)}) * 100$ <ul style="list-style-type: none"> • Round to the second decimal place • The sum of the percent of loans for the mortgages within a MBS may not add up to 100% due to rounding
Aggregate Investor Loan UPB	Sum (Loans in Stratification) <ul style="list-style-type: none"> • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB • The aggregate Investor Loan UPB may not equal the security balance due to loan corrections
Percentage Investor Loan UPB	$(\text{Sum (Stratification of Loan Investor Loan UPB)}) / (\text{Sum (Investor Loan UPB)}) * 100$ <ul style="list-style-type: none"> • Round to the second decimal place • The sum of the percent of UPB for the mortgages within a MBS may not add up to 100% due to rounding • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB
Percentage Missing	$(\text{Sum ((Investor UPB for which Attribute's Values are Unavailable))}) / (\text{Sum (Investor Loan UPB)}) * 100$ <ul style="list-style-type: none"> • Round to the second decimal place • The sum of the percent of UPB for the mortgages within a MBS may not add up to 100% due to rounding • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-001	Record Type = 1	Quartiles		String		2		
SS-002	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-003	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-004	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-005	Quartile	Based on the Current Investor UPB for all of the active loans in a security, distributed across the following quartile data points: MIN, 25%, MED, 75%, MAX.	MAX 75% MED 25% MIN	String		3		
SS-006	Mortgage Loan Amount	The dollar amount of the loan as stated on the note at the time the loan was originated or modified. For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500	
SS-007	Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-008	Current Net Interest Rate	The interest rate of the loan in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-009	Loan Term	For fixed-rate, adjustable-rate and interest-only mortgages, the number of scheduled monthly payments of the mortgage, between the first payment date and the maturity date of the mortgage.		Numeric		3		
SS-010	Remaining Months to Maturity	The number of remaining months that will reduce the Current Investor Loan UPB to zero. For fixed-rate loans, this value takes into account the impact of any curtailments.		Numeric		3		
SS-011	Loan Age	The number of months from the time the loan was originated or modified up to and including the current reporting period.		Numeric		4		
SS-012	Loan-to-Value (LTV)	The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-013	Combined Loan-to-Value (CLTV)	The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		3		
SS-014	Debt-to-Income (DTI)	The ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3		
SS-015	Borrower Credit Score	The standardized credit score used to evaluate the borrower during the loan origination process. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		4		
SS-016	Filler							
SS-017	Filler							
SS-018	Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the most recently available standardized credit score provided at the time of issuance.		Numeric		4		
SS-019	Estimated Loan-to-Value (ELTV)	For reinstated, reperforming, modified fixed-rate, and modified step-rate loans, the ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer at the time of issuance.		Numeric		3		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-020	Record Type = 2	Next Interest Rate Adjustment Date		String		2		
SS-021	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-022	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-023	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-024	Next Interest Rate Adjustment Date	For adjustable-rate loans, the month and year that the interest rate is next subject to change.		Date	MMCCYY	6		
SS-025	Months to Next Interest Rate Adjustment Date	For the stratified attribute of adjustable-rate loans, the number of months from the current month to the next interest rate adjustment date.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-026	Interest Only First Principal and Interest Payment Date	For the stratified attribute for interest only adjustable-rate loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6		
SS-027	Aggregate Investor Loan UPB	For the stratified attribute of adjustable-rate loans, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-028	Percentage Investor Security UPB	For the stratified attribute of adjustable-rate loans, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-029	Aggregate Loan Count	For the stratified attribute of adjustable-rate loans, the total number of loans in the security.		Numeric		9		
SS-030	Percentage Loan Count	For the stratified attribute of adjustable-rate loans, the percentage of loans in the security.		Numeric	3.2	6		
SS-031	WA Current Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		
SS-032	Current High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		
SS-033	Current Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		
SS-034	WA Current Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-035	Current High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-036	Current Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-037	WA Mortgage Margin	For the stratified attribute of adjustable-rate loans, the weighted average number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6		
SS-038	High Mortgage Margin	For the stratified attribute of adjustable-rate loans, the highest number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6		
SS-039	Low Mortgage Margin	For the stratified attribute of adjustable-rate loans, the lowest number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6		
SS-040	WA MBS Margin	For the stratified attribute of adjustable-rate loans, the weighted average mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-041	High MBS Margin	For the stratified attribute of adjustable-rate loans, the highest value mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-042	Low MBS Margin	For the stratified attribute of adjustable-rate loans, the lowest value mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-043	WA Life Ceiling Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average lifetime maximum interest rate.		Numeric	2.3	6		
SS-044	Life Ceiling High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value lifetime maximum interest rate.		Numeric	2.3	6		

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SS-045	Life Ceiling Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value lifetime maximum interest rate.		Numeric	2.3	6		
SS-046	WA Life Ceiling Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-047	Life Ceiling High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-048	Life Ceiling Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-049	WA Life Floor Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average lifetime minimum interest rate.		Numeric	2.3	6		
SS-050	Life Floor High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value lifetime minimum interest rate.		Numeric	2.3	6		
SS-051	Life Floor Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value lifetime minimum interest rate.		Numeric	2.3	6		
SS-052	WA Life Floor Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-053	Life Floor High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-054	Life Floor Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-055	Record Type = 3	Loan-to-Value (LTV) Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	
SS-056	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-057	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-058	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-059	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-060	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-061	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-062	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-063	Record Type = 4	Combined Loan-to-Value (CLTV) Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	
SS-064	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-065	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-066	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-067	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-068	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-069	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-070	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-071	Record Type = 5	Debt-to-Income (DTI) Not Available Stratification		String		2	Applicable only if security characteristics apply.	
SS-072	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-073	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-074	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-075	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-076	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-077	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-078	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-079	Record Type = 6	Borrower Credit Score Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-080	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-081	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-082	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-083	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-084	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-085	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-086	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-087	Record Type = 7	Days Delinquent Stratification		String		2	Applicable only for monthly disclosure	
SS-088	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-089	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-090	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-091	Days Delinquent	The number of days for which a mortgage loan has been reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120-149 5 = 150-179 6 = 180-209 7 = 210-239 8 = 240-269 9 = 270-299 10 = 300-329 11 = 330-359 12 = 360-389 13 = 390-419 14 = 420-449 15 = 450-479 16 = 480-509 17 = 510-539 18 = 540-569 19 = 570-599 20 = 600-629 21 = 630-659 22 = 660-689 23 = 690-719 24 = 720+	String		1		
SS-092	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-093	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-094	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-095	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-096	Record Type = 8	Number of Borrowers Stratification		String		2		
SS-097	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-098	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-099	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-100	Number of Borrowers	The number of borrowers who, at the time the loan is originated, are obligated to repay the loan.	1 2 >2 99 = Not Available	String		2		
SS-101	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-102	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-103	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-104	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-105	Record Type = 9	First Time Homebuyer Stratification		String		2		
SS-106	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-107	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-108	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-109	First Time Homebuyer	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer.	Y = Yes N = No 9 = Not Available	String		1		
SS-110	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-111	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-112	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-113	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-114	Record Type = 10	Loan Purpose Stratification		String		2		
SS-115	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-116	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-117	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-118	Loan Purpose	The classification describing the purpose of the loan.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1		
SS-119	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-120	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-121	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-122	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-123	Record Type = 11	Occupancy Status Stratification		String		2		
SS-124	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-125	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-126	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-127	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.	P = Primary Residence S - Second Home I = Investment Property 9 = Not Available	String		1		
SS-128	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-129	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-130	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-131	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-132	Record Type = 12	Number of Units Stratification		String		2		
SS-133	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-134	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-135	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-136	Number of Units	The number of dwelling units in the mortgaged property at the time the loan was originated.	1 = 1 2 = 2 3 = 3 4 = 4 99 = Not Available	Numeric		2		
SS-137	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-138	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-139	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-140	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-141	Record Type = 13	Property Type Stratification		String		2		
SS-142	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-143	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-144	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-145	Property Type	The classification describing the type of property that secures the loan.	CP = Cooperative CO = Condominium PU = Planned Unit Development SF = Single-Family MH = Manufactured Housing 99 = Not Available	String		2		
SS-146	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-147	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-148	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-149	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-150	Record Type = 14	Channel Stratification		String		2		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-151	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-152	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-153	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-154	Channel	The origination channel used by the party that delivered the loan to the issuer. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1		
SS-155	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-156	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-157	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-158	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-159	Record Type = 15	Property State Stratification		String		2	See Appendix B	
SS-160	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-161	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-162	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-163	Property State	The abbreviation denoting the location of the property securing the loan.		String		2		
SS-164	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-165	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-166	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-167	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-168	Record Type = 16	Seller Name Stratification		String		2		
SS-169	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-170	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-171	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-172	Seller Name	The name of the entity that sold the loan to the issuer.		String		100	Will not be updated after issuance, regardless of mergers/acquisitions.	
SS-173	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-174	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-175	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-176	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
SS-177	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-178	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified to and including the current reporting period.		Numeric		3		
SS-179	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-180	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-181	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-182	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-183	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-184	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-185	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-186	Seller City	The city of the address of the entity that sold the loans to the issuer.		String		50		
SS-187	Seller State	The state or territory of the address of the entity that sold the loans to the issuer.		String		2	XX will populate for non US states and territories	
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-188	Record Type = 17	Servicer Name Stratification		String		2		
SS-189	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-190	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-191	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-192	Servicer Name	The name of the entity that services the loan during the current reporting period. Will reflect servicer names contributing > 1% of the Current Investor Security UPB.	< 1%	String		100	Servicer names contributing < 1% of the Current Investor Security UPB will be aggregated and reflected in the < 1% enumeration	
SS-193	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-194	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-195	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-196	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
SS-197	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-198	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-199	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-200	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-201	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-202	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-203	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified to and including the current reporting period.		Numeric		3		
SS-204	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-205	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-206	Servicer City	The city of the address of the entity that services the loans.		String		50		
SS-207	Servicer State	The state or territory of the address of the entity that services the loans.		String		2	XX will populate for non US states and territories	
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-208	Record Type = 18	Mortgage Insurance Coverage Stratification		String		2		
SS-209	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-210	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-211	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-212	Mortgage Insurance Coverage	The mortgage insurance coverage in effect at the time the security was issued.	WITHMI = Loans With Mortgage Insurance NOMI = Loans Without Mortgage Insurance 999 = Not Available	String		6		
SS-213	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-214	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-215	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-216	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-217	Record Type = 19	Mortgage Insurance Cancellation Indicator Stratification		String		2		
SS-218	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-219	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-220	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-221	Mortgage Insurance Cancellation Indicator	The indicator denoting whether the mortgage insurance has been cancelled after the security was issued.	Y = Yes N = No 7 = Not Applicable	String		1		
SS-222	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-223	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-224	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-225	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-226	Record Type = 20	Government Insured/Guarantee Stratification		String		2	Applicable only to Government Insured/Guarantee loans.	
SS-227	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-228	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-229	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-230	Government Insured/Guarantee	The classification describing the Government Insured/Guarantee Program, if any, covering the loan.	FH = FHA VA = Veterans Affairs RH = Rural Housing IH = Section 184 Indian Home 99 = Not Available	String		2		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-231	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-232	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-233	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-234	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-235	Record Type = 21	Interest Only First Principal and Interest Payment Date Stratification		String		2		
SS-236	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-237	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-238	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-239	Interest Only First Principal and Interest Payment Date	For interest-only loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6		
SS-240	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-241	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-242	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-243	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
SS-244	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-245	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-246	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-247	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-248	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-249	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-250	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
SS-251	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
SS-252	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
SS-253	WA Months to Amortization	For the stratified attribute, the weighted average number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-254	Record Type = 22	Not Paying Principal in First Distribution Stratification Loans that will not receive a principal distribution in the first investor payment.		String		2	Applicable only at issuance	
SS-255	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-256	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-257	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-258	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-259	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-260	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-261	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-262	Record Type = 23	Origination Year Stratification		String		2		
SS-263	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-264	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-265	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-266	Origination Year	The year of origination of the loans in the security.		Date	CCYY	4		
SS-267	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-268	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-269	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-270	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-271	Record Type = 24	Origination Channel Stratification		String		2	Applicable only if security characteristics apply.	
SS-272	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-273	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-274	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-275	Origination Channel	For repurposing, modified fixed-rate and modified step-rate loans, the origination channel used by the party that delivered the loan to the issuer.	R = Retail B = Broker C = Correspondent T = Third-Party Origination - Not Specified 9 = Not Available	String		1		
SS-276	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-277	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-278	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-279	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-280	Record Type = 25	Non-Standard Loan Type Stratification	COOP = Cooperative HIGH = FHFA High-Cost Area BYDN = Interest-rate buydown RELO = Relocation	String		2	Applicable only at issuance for Single-Class (no- rescureitizations).	
SS-281	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-282	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-283	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-284	Non-Standard Loan Type	The non-standard loan characteristics included in the security.	COOP = Cooperative HIGH = FHFA High Cost Area BYDN = Interest-rate buydown RELO = Relocation	String		4	<p>Applicable only at issuance for Single-Class securities (no rescureitizations).</p> <p>One or more of the following non-standard mortgage loan types will be displayed if any constitutes greater than 10% of the scheduled unpaid principal balance of the MBS pool, or if a combination of two or more of these mortgage loan types constitute greater than 15% of the scheduled unpaid principal balance of the MBS pool:</p> <ul style="list-style-type: none"> • Co-operative share loans (COOP) • Interest-rate loans (significant temporary interest rate buy down loans) • Relocation loans • FHFA High Cost Area <p>The categories are not mutually exclusive. For example, one mortgage loan may be a co-op mortgage loan and an interest-rate mortgage loan, and if so, it will appear in this table in both categories. Totals may exceed 100%.</p>	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-285	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-286	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-287	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-288	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-289	Record Type = 26	Modification Program Stratification		String		2	Applicable only if security characteristics apply.	
SS-290	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-291	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-292	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-293	Modification Program	For reprereforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.	H = HAMP O = Other R = Regular S = Standard T = Streamlined 9 = Not Available	String		1		
SS-294	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-295	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-296	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-297	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-298	Record Type = 27	Modification Type Stratification		String		2	Applicable only if security characteristics apply.	
SS-299	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-300	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-301	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-302	Modification Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification describing the type of modification.	R = Rate T = Term B = Rate & Term C = Capitalization F = Rate, Term & Forbearance O = Other	String		1		
SS-303	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-304	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-305	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-306	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-307	Record Type = 28	Modification Information Stratification		String		2	Not applicable for Fannie Mae.	
SS-308	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-309	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-310	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-311	Modification Information	For reperforming, modified fixed-rate and modified step-rate loans, the Total Capitalized Amounts and Deferred Unpaid Principal Balances of the loans in the security.	TOTAL CAPITALIZED AMOUNT DEFERRED UPB	String		25		
SS-312	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-313	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-314	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-315	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-316	Record Type = 29	Number of Modifications Stratification		String		2	Applicable only if security characteristics apply.	
SS-317	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-318	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-319	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-320	Number of Modifications	For reperforming, modified fixed-rate and modified step-rate loans, the number of times the loan has been modified.	1 2 >2	Numeric		2		
SS-321	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-322	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-323	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-324	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-325	Record Type = 30	Deferred Unpaid Principal Balance Stratification Applicable only for modified pools		String		2	Not applicable for Fannie Mae.	
SS-326	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-327	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-328	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-329	Deferred UPB Type	For reperforming, modified fixed-rate and modified step-rate loans, denotes if the reported unpaid principal balance includes any deferred amount.	WITHDEFUPB = With Deferred UPB NODEFUPB = Without Deferred UPB 99 = Not Available	String		10		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-330	Interest-Bearing UPB	For reperforming, modified fixed-rate and modified step-rate loans, the aggregate interest bearing unpaid principal balance at the time of modification.		Numeric	14.2	17		
SS-331	Deferred UPB	For reperforming, modified fixed-rate and modified step-rate loans, the aggregate non-interest bearing amount at the time of modification. This amount does not contribute to MBS. The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.		Numeric	14.2	17		
SS-332	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-333	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		
SS-334	WA Estimated LTV (ELTV)	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer, at the time of issuance.		Numeric		3		
SS-335	WA Updated Credit Score	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average most recently available standardized credit score provided at the time of issuance.		Numeric		4		
SS-336	WA Debt-to-Income (DTI) Ratio	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3		
SS-337	Average Mortgage Loan Amount	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the simple average dollar amount of the loan as stated on the note at the time the loan was originated or modified. For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.		Numeric	9.2	12		
SS-338	Property State 1	The abbreviation denoting the location of the property securing the loan for the stratified attribute. ~Ranked #1 by Investor Loan UPB		String		2		
SS-339	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric	14.2	17		
SS-340	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric	3.2	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-341	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric		9		
SS-342	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #1 (ranked by Investor Loan UPB).		Numeric	3.2	6		
SS-343	Property State 2	The abbreviation denoting the location of the property securing the loan for the stratified attribute. ~Ranked #2 by Investor Loan UPB		String		2		
SS-344	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric	14.2	17		
SS-345	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric	3.2	6		
SS-346	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric		9		
SS-347	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #2 (ranked by Investor Loan UPB).		Numeric	3.2	6		
SS-348	Property State 3	The abbreviation denoting the location of the property securing the loan for the stratified attribute. ~Ranked #3 by Investor Loan UPB		String		2		
SS-349	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric	14.2	17		
SS-350	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric	3.2	6		
SS-351	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric		9		
SS-352	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #3 (ranked by Investor Loan UPB).		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-353	Record Type = 31	Estimated Loan-to-Value (ELTV) Not Available Stratification For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be populated, if applicable.		String		2	Applicable only if security characteristics apply.	
SS-354	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-355	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-356	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-357	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		String	14.2	17		
SS-358	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-359	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-360	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-361	Record Type = 32	Updated Credit Score Not Available Stratification For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be populated, if applicable.		String		2	Applicable only if security characteristics apply.	
SS-362	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-363	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-364	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-365	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-366	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-367	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-368	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-369	Record Type = 33	Number of Remaining Steps Stratification		String		2	Not applicable to Fannie Mae.	
SS-370	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-371	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-372	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-373	Number of Remaining Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2		
SS-374	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-375	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-376	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-377	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-378	Record Type = 34	Number of Steps - At Modification Stratification		String		2	Not applicable to Fannie Mae.	
SS-379	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-380	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-381	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-382	Number of Steps - at Modification	For reperforming, modified step-rate loans, the number of upward interest rate adjustments at the time of modification.		Numeric		2		
SS-383	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-384	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-385	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-386	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-387	Record Type = 35	Next Step Rate Adjustment Date Stratification		String		2	Not applicable to Fannie Mae.	
SS-388	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-389	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-390	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-391	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6		
SS-392	Projected WA Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the projected weighted average of the expected interest rates in effect on the associated adjustment date, not accounting for prepayments.		Numeric	2.3	6		
SS-393	Projected WA Net Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the projected weighted average of the expected interest rates in effect on the associated adjustment date, not accounting for prepayments less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-394	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-395	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-396	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-397	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-398	Record Type = 36	Origination Loan-to-Value (LTV) Not Available Stratification For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be populated, if applicable.		String		2	Applicable only if security characteristics apply.	
SS-399	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-400	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-401	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-402	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-403	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-404	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-405	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-406	Record Type = 37	Origination Combined Loan-to-Value (CLTV) Not Available Stratification For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be populated, if applicable.		String		2	Applicable only if security characteristics apply.	
SS-407	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-408	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-409	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-410	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-411	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-412	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-413	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-414	Record Type = 38	Origination Debt-to-Income (DTI) Not Available Stratification		String		2	Applicable only if security characteristics apply.	
SS-415	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-416	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-417	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-418	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-419	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-420	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-421	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-422	Record Type = 39	Origination Borrower Credit Score Not Available Stratification		String		2	Applicable only if security characteristics apply.	
SS-423	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-424	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-425	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-426	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-427	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-428	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-429	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-430	Record Type = 40	Origination Loan Purpose Stratification		String		2	Applicable only if security characteristics apply.	
SS-431	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-432	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-433	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-434	Origination Loan Purpose	For reperforming, modified fixed-rate and modified step-rate loans, the classification of the loan as either a purchase money mortgage or a refinance mortgage at the time the loan was originated.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-435	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-436	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-437	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-438	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-439	Record Type = 41	Origination Occupancy Status Stratification		String		2	Applicable only if security characteristics apply.	
SS-440	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-441	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-442	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-443	Origination Occupancy Status	For repurchasing, modified fixed-rate and modified step rate loans, the classification describing the property occupancy status at the time the loan was originated.	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1		
SS-444	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-445	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-446	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-447	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-448	Record Type = 42	Borrower Payment History Stratification		String		2	Not applicable to Fannie Mae.	
SS-449	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-450	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-451	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-452	Days Delinquent	For reperforming, modified and modified step-rate loans, the number of days for which a mortgage loan was reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120-149 5 = 150-179 6 = 180-209 7 = 210-239 8 = 240-269 9 = 270-299 10 = 300-329 11 = 330-359 12 = 360-389 13 = 390-419 14 = 420-449 15 = 450-479 16 = 480-509 17 = 510-539 18 = 540-569 19 = 570-599 20 = 600-629 21 = 630-659 22 = 660-689 23 = 690-719 24 = 720+	String		1		
SS-453	Borrower Payment Date	The month and year that the borrower was scheduled to remit payment. Up to 36-months of payment history		Date	MMCCYY	6		
SS-454	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-455	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-456	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-457	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-458	Record Type = 43	Collateral List		String		2	Applicable only at issuance for Single-Class resecuritizations.	
SS-459	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-460	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-461	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-462	Collateral Prefix	For each security that directly underlies the securitization, the designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-463	Collateral Security Identifier	For each security that directly underlies the securitization, the unique designation assigned to the security by the issuer.		String		6		
SS-464	Collateral CUSIP	For each security that directly underlies the securitization, the unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-465	Collateral Current WA Net Interest Rate	For each security that directly underlies the securitization, the weighted average interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
SS-466	Collateral Issue Date	For each security that directly underlies the securitization, the date on which the security was issued.		Date	MMDDCCYY	8		
SS-467	Collateral Issuer	The issuer for each security that directly underlies the securitization.		String		3		
SS-468	Collateral Maturity Date	The month and year in which the final payment on the underlying security is scheduled to be made at the time the underlying security was issued.		Date	MMCCYY	6		
SS-469	Collateral Issuance Investor Security UPB	For each security that directly underlies the securitization, the unpaid principal balance of the loans as they contribute to the balance of the security.		Numeric	12.2	15		
SS-470	Collateral Issuance Contributing Investor Security UPB	For each security that directly underlies the securitization, the pro-rata share of the Investor Security UPB - Issuance amount.		Numeric	12.2	15		
SS-471	Collateral Current Contributing Investor Security UPB	For each security that directly underlies the securitization, the pro-rata share of the Investor Security UPB - Current amount.		Numeric	12.2	15		
SS-472	Collateral WA Interest Rate at Settlement	For each security that directly underlies the securitization, the weighted average interest rate at the time of securitization.		Numeric	2.3	6		
SS-473	Collateral WA Remaining Months to Maturity at Settlement	For each security that directly underlies the securitization, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero at the time of securitization. For fixed-rate loans, this value takes into account the impact of any curtailments.		Numeric		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-474	Collateral WA Loan Age at Settlement	For each security that directly underlies the resecuritization, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period at the time of resecuritization.		Numeric		3		
SS-475	Collateral Trust Identifier	For each security that directly underlies the resecuritization, an identifier assigned to the trust when established into a multiclass resecuritization.		String		50	Applicable only when underlying collateral is a REMIC.	
SS-476	Collateral Class Identifier	For each security that directly underlies the resecuritization, an identifier assigned to the class when established into a multiclass resecuritization.		String		4	Applicable only when underlying collateral is a REMIC.	
SS-477	Group Identifier	An identifier assigned to the group when established into a multiclass resecuritization.		String		5	Applicable only when underlying collateral is a REMIC or SMBS.	
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-478	Record Type = 44	Property Valuation Method Stratification		String		2		
SS-479	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-480	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-481	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-482	Property Valuation Method	The method by which the value of the subject property was obtained.	A = Appraisal C = Appraisal Waiver plus Property Data Collection - Condition P = Appraisal Waiver plus Property Data Collection – Value R = GSE Targeted Refinance Programs W = Appraisal Waiver O = Other 7 = Not Applicable 9 = Not Available	String		1		
SS-483	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-484	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-485	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-486	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-487	Record Type = 45	Borrower Assistance Plan Stratification		String		2	Applicable only for monthly disclosure	
SS-488	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-489	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-490	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-491	Borrower Assistance Plan	The type of assistance plan that the borrower is enrolled in that provides temporary mortgage payment relief or an opportunity to cure a mortgage delinquency over a defined period.	F = Forbearance Plan R = Repayment Plan T = Trial Period Plan O = Other Workout Plan N = No Workout Plan 7 = Not Applicable 9 = Not Available	String		1	The data in this stratification will be published on a one-month delay due to the timing of our servicing reporting cycle. For example, the values in this stratification published in July 2020 correspond to the delinquency status in the Days Delinquent+H552t Stratification published in June 2020. For non-delinquent loans, for which a Borrower Assistance Plan is not reported by the Servicer, this attribute will be defaulted to Not Applicable. The field may be populated if the loan is reported current in days delinquent stratification.	
SS-492	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-493	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-494	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-495	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-496	Record Type = 46	Alternative Delinquency Resolution Stratification		String		2	Applicable only for monthly disclosure	
SS-497	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-498	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-499	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-500	Alternative Delinquency Resolutions	The loss mitigation solution that resolves delinquencies and help homeowners remain in their homes in accordance with the servicer's contractual obligation, while allowing the loan to remain in the security.	P = Payment Deferral C = COVID-19 Payment Deferral D = Disaster Payment Deferral M = Multiple Payment Deferrals O = Other 7 = Not Applicable 9 = Not Available	String		1	Multiple enumeration is not present at the loan-level. If number of alternative delinquency resolution is greater than 1, the record will be represented as Multiple.	
SS-501	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	14.2		
SS-502	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-503	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-504	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
SS-505	Total Deferral Amount	The total non-interest-bearing deferral amount related to one or more Alternative Delinquency Resolutions.		Numeric	14.2	14.2		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-506	Record Type = 47	Number of Alternative Delinquency Resolutions Stratification		String		2	Applicable only for monthly disclosure	
SS-507	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-508	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-509	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-510	Number of Alternative Delinquency Resolutions	The total number of Alternative Delinquency Resolutions as reported by the servicer for a specific loan.	1 2 3 4 5 >5	String		1		
SS-511	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	14.2		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-512	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-513	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-514	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
SS-515	Total Deferral Amount	The total non-interest-bearing deferral amount related to one or more Alternative Delinquency Resolutions.		Numeric	14.2	14.2		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-516	Record Type = 48	Borrower Assistance Plan Stratification		String		2	Not applicable to Fannie Mae.	
SS-517	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-518	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-519	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-520	Borrower Assistance Plan	For a reperforming or modified loan in a newly issued security, the type of borrower assistance plan that the borrower was enrolled in at any time during the 36 months prior to issuance of such security.	F = Forbearance Plan R = Repayment Plan T = Trial Period Plan O = Other Workout Plan N = No Workout Plan 7 = Not Applicable 9 = Not Available	String		1		
SS-521	Borrower Payment Date	The month and year that the borrower was scheduled to remit payment.		Date	MMCCYY	6		
SS-522	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-523	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-524	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-525	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-526	Record Type = 49	Special Eligibility Program Stratification		String		2		
SS-527	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-528	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-529	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-530	Special Eligibility Program	A mortgage program with expanded eligibility criteria designed to increase and maintain home ownership.	H - Home Ready F - HFA Preferred R - RefiNow O - Other 7 - Not Applicable 9 - Not Available	String		1		
SS-531	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-532	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-533	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-534	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-535	Record Type = 50	Interest Rate Buydown Type Stratification		String		2		
SS-536	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-537	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-538	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-539	Interest Rate Buydown Type	<p>An arrangement whereby a party deposits funds to an account which is used to temporarily reduce a borrower's monthly payment through a temporary reduction in the interest rate.</p> <ul style="list-style-type: none"> • Moderate: An Interest Rate Buydown in which the interest rate is bought down by less than or equal to 2% and for less than or equal to 24 months. Freddie Mac's product is known as Temporary. • Significant: An Interest Rate Buydown in which the interest rate is bought down by greater than 2% or for greater than 24 months. Freddie Mac's product is known as Extended. • Other: Any Interest Rate Buydown type not provided within the other enumerations. • Not Applicable: Interest Rate Buydown type is not applicable to the related mortgage loan. • Not Available: Interest Rate Buydown type is not available for disclosure. 	MT = Moderate / Temporary SE = Significant / Extended O = Other 7 = Not Applicable 9 = Not Available	String		2	The maximum interest rate reduction cannot exceed 3%, buydown period cannot exceed 3 years, and the interest rate increase cannot exceed 1% per year.	
SS-540	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-541	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-542	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-543	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-544	Record Type = 51	Green Program Criteria Stratification		String		2		
SS-545	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-546	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-547	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-548	Green Program Criteria	The share of loans secured by properties with eligible energy efficiency program(s).	(G) Green Building Certification (E) Energy Rating Index (R) Renewable Energy (W) Water Certification (M) Multiple (O) Other	String		1	"Multiple" will be designated if the loans meet the criteria for a combination of at least two green program criteria.	
SS-549	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-550	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-551	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-552	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-553	Record Type = 52	Green Building Certification Stratification		String		2	Applicable only for Single-Class securities (no rescuritizations).	
SS-554	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-555	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-556	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-557	Green Building Certification	The share of loans secured by properties certified to eligible green building certifications.	(E) ENERGY STAR (D) DOE Zero Energy Ready Home (G) National Green Building Standard (N) NEEM (O) Other	String		1	NEEM is Northwest Energy-Efficient Manufactured Housing Program™	
SS-558	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-559	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-560	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-561	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-562	Record Type = 53	Energy Rating Index Stratification		String		2	Not applicable to Fannie Mae.	
SS-563	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-564	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-565	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-566	Energy Rating Index	The share of loans secured by properties scored using eligible energy rating indices.	(H) Home Energy Rating Score (O) Other	String		1		
SS-567	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-568	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-569	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-570	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-571	Record Type = 54	Renewable Energy Stratification		String		2	Applicable only for Single-Class securities (no rescureitizations).	
SS-572	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-573	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-574	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-575	Renewable Energy	The share of loans secured by properties with renewable energy sources.	(S) Solar (G) Geothermal (O) Other	String		1		
SS-576	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-577	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-578	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-579	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
SS-580	Record Type = 55	Water Certification Stratification		String		2	Applicable only for Single-Class securities (no rescureitizations).	
SS-581	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SS-582	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SS-583	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SS-584	Water Certification	The share of loans secured by properties certified to eligible water certifications.	(W) Water Sense (O) Other	String		1		
SS-585	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
SS-586	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
SS-587	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
SS-588	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
File retired after the last publication date of September 1, 2023. Social Density Score and Social Criteria Share attributes have been added to the Security Level file.								
SD-01	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
SD-02	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
SD-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SD-04	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8		
SD-05	Social Density Score	<p>The average of the number of Social Dimensions for which each mortgage loan qualifies.</p> <p>There are three possible dimensions. The first Social Dimension is if a borrower(s) meets the requirements of a "Low-Income Borrower." The second dimension is if the borrower (s) meets the requirements of one or both of a "Minority Borrower," or a "First-Time Homebuyer. The third Social Dimension is if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," Designated Disaster Area", or "Manufactured Housing" mortgage loan.</p>		Numeric	1.2	4	<p>The maximum score will be 2.5 to minimize privacy concerns in cases where all three Social Dimensions are met</p> <p>If issuance loan count is less than 10 non-second homes then default to 7.77</p>	Sum (Loan Social Dimensions for all loans) / aggregate loan count
SD-06	Social Criteria Share	<p>The percentage of loans in the security that satisfies at least one Social Dimension.</p> <p>There are three possible dimensions. The first Social Dimension is if a borrower(s) meets the requirements of a "Low-Income Borrower." The second dimension is if the borrower(s) meets the requirements of one or both of a "Minority Borrower," or a "First-Time Homebuyer. The third Social Dimension is if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," Designated Disaster Area", or "Manufactured Housing" mortgage loan.</p>		Numeric	3.2	6	If issuance loan count is less than 10 non-second homes then default to 777.77	Sum (Number of loans with social Dimension >=1) / aggregate loan count

MICA V1.0 Disclosure Supplement								
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
MCD-01	Quarter	The year and quarter in which the security was issued.		Date	YYYY-QQ	7		
MCD-02	Prefix	The designation assigned by the issuer denoting the type of mortgage loan and the security.		String		3		
MCD-03	Specified Story	The criteria that the MBS must meet at issuance.	FN_MDS 85k 110k 125k 150k 175k 200k 225k 250k 275k 300K NY TX FL LTV>= 95 INV FICO<700 Green NONSPEC ALL	String		8	<p>Specified Stories are securities for which the security or all of the underlying mortgage loans meet one of the following criteria in the following waterfall order:</p> <ul style="list-style-type: none"> * FN_MDS = MBS with MDS >= 2.00 auctioned by Fannie Mae * 85k = Mortgage Loan Amount for all loans <= \$85k * 110k = Mortgage Loan Amount for all loans <= \$110k * 125k = Mortgage Loan Amount for all loans <= \$125k * 150k = Mortgage Loan Amount for all loans <= \$150k * 175k = Mortgage Loan Amount for all loans <= \$175k * 200k = Mortgage Loan Amount for all loans <= \$200k and MBS Issue Date >= 01/01/2015 * 225k = Mortgage Loan Amount for all loans <= \$225k and MBS Issue Date >= 01/01/2019 * 250k = Mortgage Loan Amount for all loans <= \$250k and MBS Issue Date >= 01/01/2020 * 275k = Mortgage Loan Amount for all loans <= \$275k and MBS Issue Date >= 01/01/2023 * 300k = Mortgage Loan Amount for all loans <= \$300k and MBS Issue Date >= 01/01/2024 * NY = Property State for all loans = NY * TX = Property State for all loans = TX * FL = Property State for all loans = FL * LTV>=95 = Loan-to-Value for all loans >= 95% * INV = Occupancy Status for all loans = Investment Property * FICO<700 = Borrower Credit Score for all loans < 700 * Green = MBS with a Green Indicator = Yes * NonSpec = Any story not designated above * ALL = All MBS (Specified Story and non-Specified Story) 	
MCD-04	Cohort Mission Density Score Minimum	The minimum Mission Density Score (MDS) for the given cohort.		String		4	<p>Each cohort is defined by a MDS range, bounded by the Minimum MDS and the Maximum MDS. The Minimum MDS represents the floor of the MDS range, with the score being inclusive in the cohort. The Maximum MDS represents the cap of the MDS range, with the score being exclusive of the cohort. For example, securities within a cohort with a Minimum MDS of 2.00 and a Maximum MDS of 2.50 may have MDS of 2.00 - 2.24.</p> <p>A cohort with a Minimum MDS of 7.75 and a Maximum MDS of 8.00 encompasses securities with MDS of 7.77 (Not Applicable).</p> <p>A cohort with the value of ALL for both the Minimum and the Maximum MDS encompasses every security within the cohort regardless of MDS.</p> <p>Due to privacy concerns, a disclosed cohort must contain a minimum of five pools.</p>	

MICA V1.0 Disclosure Supplement								
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
MCD-05	Cohort Mission Density Score Maximum	The maximum Mission Density Score (MDS) for the given cohort.		String		4	Each cohort is defined by a MDS range, bounded by the Minimum MDS and the Maximum MDS. The Minimum MDS represents the floor of the MDS range, with the score being inclusive in the cohort. The Maximum MDS represents the cap of the MDS range, with the score being exclusive of the cohort. For example, securities within a cohort with a Minimum MDS of 2.00 and a Maximum MDS of 2.50 may have MDS of 2.00 - 2.24. A cohort with a Minimum MDS of 7.75 and a Maximum MDS of 8.00 encompasses securities with MDS of 7.77 (Not Applicable). A cohort with the value of All for both the Minimum and the Maximum MDS encompasses every security within the cohort regardless of MDS. Due to privacy concerns, a disclosed cohort must contain a minimum of five pools.	
MCD-06	Cohort Mission Density Score	A score representing the average number of Mission Dimensions for which each mortgage loan qualifies for the given cohort.		Numeric	1.2	4	The maximum score will be 2.50 to address privacy concerns in cases where all three Mission Dimensions are met. Due to privacy concerns, a disclosed cohort must contain a minimum of five pools.	Sum (Loan Social Dimensions for all loans within the cohort)/aggregate loan count within the cohort
MCD-07	Cohort Mission Criteria Share	The percentage of mortgage loans within the cohort that satisfy at least one Mission Dimension.		Numeric	3.2	6	Due to privacy concerns, a disclosed cohort must contain a minimum of five pools.	Sum (Number of loans within the cohort with Social Dimension =>1)/aggregate loan count within the cohort
MCD-08	Low Income Borrower Share	The percentage of mortgage loans within the cohort where the borrower qualifies as a low income borrower.		Numeric	3.2	6		Sum (Number of loans within the cohort where the borrower qualifies as a low income borrower / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1
MCD-09	First-Time Homebuyer Share	The percentage of mortgage loans within the cohort where the borrower qualifies as a first-time homebuyer.		Numeric	3.2	6		Sum (Number of loans within the cohort where the borrower qualifies as a first-time homebuyer / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1
MCD-10	Low Income Area Share	The percentage of mortgage loans within the cohort where the related mortgaged property is located in a low income area.		Numeric	3.2	6		Sum (Number of loans within the cohort where the related mortgaged property is located in a low income area / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score =>1
MCD-11	Minority Tract Share	The percentage of mortgage loans within the cohort where the related mortgaged property is located in a minority tract area.		Numeric	3.2	6		Sum (Number of loans within the cohort where the related mortgaged property is located in a minority tract area / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1
MCD-12	Manufactured Housing Share	The percentage of mortgage loans within the cohort that finance manufactured housing.		Numeric	3.2	6		Sum (Number of loans within the cohort that finance manufactured housing / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1

MICA V1.0 Disclosure Supplement								
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
MCD-13	High Needs Rural Share	The percentage of mortgage loans within the cohort where the related mortgaged property is located in a high needs rural area.		Numeric	3.2	6		Sum (Number of loans within the cohort where the related mortgaged property is located in a high needs rural area / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1
MCD-14	Designated Disaster Area Share	The percentage of mortgage loans within the cohort where the related mortgaged property is located in a designated disaster area.		Numeric	3.2	6		Sum (Number of loans within the cohort where the related mortgaged property is located in a designated disaster area / Mission Loan Count for the cohort) *Mission Loan Count is the number of loans with a Mission Score => 1
MICA V1.0 CUSIP Mapping								
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
MCM-01	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
MCM-02	Issue Date	The date on which the security was issued.		Date	YYYY-MM-DD	10	The file only includes securities issued in January 2010 through and including February 2024.	
MCM-03	Issuance Investor Security UPB	The aggregate unpaid principal balance of the mortgage loans as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17		
MCM-04	Loan Count	The total number of mortgage loans in the security.		Numeric		9	This represents the at-issuance mortgage loan count.	Sum the number of loans where Investor Loan UPB > zero
MCM-05	Quarter	The year and quarter in which the security was issued.		Date	YYYY-QQ	7		
MCM-06	Prefix	The designation assigned by the issuer denoting the type of mortgage loans and the security.		String		3		

MICA V1.0 CUSIP Mapping								
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
MCM-07	Specified Story	The criteria that the MBS must meet at issuance.	FN_MDS 85k 110k 125k 150k 175k 200k 225k 250k 275k 300k NY TX FL LTV>= 95 INV FICO<700 Green NONSPEC ALL	String		8	<p>Specified Stories are securities for which the security or all of the underlying mortgage loans meet one of the following criteria in the following waterfall order:</p> <ul style="list-style-type: none"> * FN_MDS = MBS with MDS >= 2.00 auctioned by Fannie Mae * 85k = Mortgage Loan Amount for all loans <= \$85k * 110k = Mortgage Loan Amount for all loans <= \$110k * 125k = Mortgage Loan Amount for all loans <= \$125k * 150k = Mortgage Loan Amount for all loans <= \$150k * 175k = Mortgage Loan Amount for all loans <= \$175k * 200k = Mortgage Loan Amount for all loans <= \$200k and MBS Issue Date >= 01/01/2015 * 225k = Mortgage Loan Amount for all loans <= \$225k and MBS Issue Date >= 01/01/2019 * 250k = Mortgage Loan Amount for all loans <= \$250k and MBS Issue Date >= 01/01/2020 * 275k = Mortgage Loan Amount for all loans <= \$275k and MBS Issue Date >= 01/01/2023 * 300k = Mortgage Loan Amount for all loans <= \$300k and MBS Issue Date >= 01/01/2024 * NY = Property State for all loans = NY * TX = Property State for all loans = TX * FL = Property State for all loans = FL * LTV>=95 = Loan-to-Value for all loans >= 95% * INV = Occupancy Status for all loans = Investment Property * FICO<700 = Borrower Credit Score for all loans < 700 * Green = MBS with a Green Indicator = Yes * NonSpec = Any story not designated above * ALL = All MBS (Specified Story and non-Specified Story) 	
MCM-08	Mission Density Score	<p>A score representing the number of Mission Dimensions for which each mortgage loan qualifies.</p> <p>There are three possible dimensions. The first Social Dimension represents if a borrower(s) meets the requirements of a "Low-Income Borrower." The second Social Dimension represents if a borrower(s) meets the requirements of one or both of a "Minority Borrower," or a "First-Time Homebuyer." The third Social Dimension represents if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," "Designated Disaster Area," or "Manufactured Housing" mortgage loan.</p>		Numeric	1.2	4	<p>The maximum score will be 2.50 to address privacy concerns in cases where all three Mission Dimensions are met.</p> <p>The score reflects the simple average of the number of Mission Dimensions for which each mortgage loan qualifies.</p> <p>The Mission Density Score (MDS) will be unscored and defaulted to 7.77 (Not Applicable) for a security if the at-issuance non-second home loan count is less than 10.</p>	Sum (Loan Social Dimensions for all loans)/aggregate loan count
MCM-09	Mission Criteria Share	<p>The percentage of mortgage loans in the security that satisfy at least one Mission Dimension.</p> <p>There are three possible dimensions. The first Social Dimension represents if a borrower(s) meets the requirements of a "Low-Income Borrower." The second Social Dimension represents if a borrower(s) meets the requirements of one or both of a "Minority Borrower," or a "First-Time Homebuyer." The third Social Dimension represents if the mortgage loan meets the requirements of a "Low-Income Area," "Minority Tract," "High-Needs Rural," "Designated Disaster Area," or "Manufactured Housing" mortgage loan.</p>		Numeric	3.2	6	<p>The Mission Criteria Share (MCS) will be unscored and defaulted to 777.77 (Not Applicable) for a security if the at-issuance non-second home loan count is less than 10.</p>	Sum (Number of loans with Social Dimension >=1)/aggregate loan count

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Daily Prepayment Report
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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
DPR-01	Date	The date that Fannie Mae processed the payoff transaction.		Date	CCYYMMDD	8	If an adjustment is made on the payoff, the adjustment will occur on the date the adjustment is made and not on the original payoff date.	
DPR-02	Factor Date	The month and year on which the corresponding unscheduled principal from the payoff will be reflected in the next published factor.		Date	CCYMM	6		
DPR-03	Type of Security	The grouping of the underlying securities based on the pool prefix and pool characteristics.	15yr TBA Eligible 10yr TBA Eligible 20yr TBA Eligible 30yr TBA Eligible High Balance > 15 Yr High Balance <= 15yr Other Fixed-Rate > 15yr Other Fixed-Rate <= 15yr Government Fixed-Rate ARM RPL	String		50	Securities are grouped into cohorts based on the pool prefix.	
DPR-04	Year	The grouping of the underlying securities based on the security's issuance year with consideration of the loan's age at the time of securitization.		String		4		Issue Date - (Issuance Weighted Average Loan Age)
DPR-05	WA Net Interest Rate	The grouping of the underlying securities based on the weighted average interest rate of the loans less applicable fees (servicing fees and guarantor fees)	.50% < 1.0% range 1.00% = .75% to < 1.25% range 1.50% = 1.25% to < 1.75% range 2.00% = 1.75% to < 2.25% range 2.50% = 2.25% to < 2.75% range 3.00% = 2.75% to < 3.25% range 3.50% = 3.25% to < 3.75% range 4.00% = 3.75% to < 4.25% range 4.50% = 4.25% to < 4.75% range 5.00% = 4.75% to < 5.25% range 5.50% = 5.25% to < 5.75% range 6.00% = 5.75% to < 6.25% range 6.50% = 6.25% to < 6.750% range 7.00% = 6.75% to < 7.25% range 7.50% = 7.25% to < 7.75% range 8.00% = 7.75% to < 8.25% range 8.50% = 8.25% to < 8.75% range 9.00% = 8.75% to < 9.25% range 9.50% = 9.25% to < 9.750% range 10.00% = 9.75% to < 10.25% range 10.50% = 10.25% to < 10.75% range >=11.000 = >10.75%	Numeric	2.3	6	Values are based on the most recent published monthly factor data.	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
DPR-06	Unscheduled Principal Reduction Amount	The total unscheduled principal amount from full voluntary payoff activity reported on a given day for the cohort.		Numeric	12.2	15	If an adjustment is made on a payoff amount, the adjustment will be reflected in the amount on the day of the adjustment and not on the original reported payoff day.	Sum(Current Investor Security UPB - Scheduled Principal) for all loans with full voluntary payoff activity within the cohort for the day.
DPR-07	Current Scheduled UPB	The aggregated scheduled unpaid principal of the pools in effect during the last factor reporting period for the given cohort.		Numeric	12.2	15	Values are based on the most recent published monthly factor data.	Sum of Current Investor Security UPB for all pools contributing to the cohort.
DPR-08	WA Interest Rate	The weighted average interest rate of the pools in effect during the last factor reporting period for the given cohort.		Numeric	2.3	6	Values are based on the most recent published monthly factor data.	Sum ((WA Interest Rate)*(Current Investor Security UPB)) / Sum (Current Investor Security UPB) for all pools in cohort. • Round to the nearest integer
DPR-09	WA Remaining Months to Maturity	The weighted average remaining months to maturity of the pools in effect during the last factor reporting period for the given cohort.		Numeric		3	Values are based on the most recent published monthly factor data.	Sum ((WA Maturity)*(Current Investor Security UPB)) / Sum (Current Investor Security UPB) for all pools in cohort. • Round to the nearest integer
DPR-10	WA Loan Age	The weighted average loan age of the pools in effect during the last factor reporting period for the given cohort.		Numeric		3	Values are based on the most recent published monthly factor data.	Sum ((WA Loan Age)*(Current Investor Security UPB)) / Sum (Current Investor Security UPB) for all pools in cohort. • Round to the nearest integer
DPR-11	Cumulative Unscheduled Principal Reduction Amount	The cumulative total unscheduled principal amount from full voluntary payoff activity reported through the calendar day for the cohort.		Numeric	12.2	15	If an adjustment is made on a payoff amount, the adjustment will be reflected in the amount on the day of the adjustment and not on the original reported payoff day.	Sum (Unscheduled Principal Reduction Amount for Day 1) + (Unscheduled Principal Reduction Amount for Day 2), etc. for all loans with full payoff voluntary activity within the cohort for the month.
DPR-12	Principal Reduction Amount	The total principal amount from full voluntary payoff activity reported on a given day for the cohort.		Numeric	12.2	15	If an adjustment is made on a payoff amount, the adjustment will be reflected in the amount on the day of the adjustment and not on the original reported payoff day.	Sum (Scheduled and Unscheduled Principal Reduction Amount) for all loans with full voluntary payoff activity within the cohort for the day.
DPR-13	Cumulative Principal Reduction Amount	The cumulative total principal amount from full voluntary payoff activity reported through the calendar day for the cohort.		Numeric	12.2	15	If an adjustment is made on a payoff amount, the adjustment will be reflected in the amount on the day of the adjustment and not on the original reported payoff day.	Sum (Scheduled and Unscheduled Principal Reduction Amount for Day 1) + (Scheduled and Unscheduled Principal Reduction Amount for Day 2), etc. for all loans with full voluntary payoff activity within the cohort for the month.

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GinnieMae Backed Megas Factor
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
GM-01	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
GM-02	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8		
GM-03	Issuance Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17		Sum (Issuance Investor Loan UPB)
GM-04	WA Current Interest Rate	The weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		$(\text{Sum} ((\text{Interest Rate}) * (\text{Current Investor Loan UPB}))) / (\text{Sum} (\text{Current Investor Loan UPB}))$
GM-05	WA Current Remaining Months to Maturity	The weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero. For fixed-rate loans, this value takes into account the impact of any curtailments.		Numeric		3		$(\text{Sum} ((\text{Loan Remaining Months to Maturity}) * (\text{Current Investor Loan UPB}))) / (\text{Sum} (\text{Current Investor Loan UPB}))$ • Round up to the nearest integer
GM-06	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3		
GM-07	Product	The indicator denoting the type of security.	Mega	String		4		
GM-08	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
GM-09	WA Net Interest Rate	The weighted average interest rate of the loans at the time the security was issued less servicing fees and guarantor fees.		Numeric	2.5	8		$(\text{Sum} ((\text{Net Interest Rate}) * (\text{Investor Loan UPB}))) / (\text{Sum} (\text{Investor Loan UPB}))$ • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
GM-10	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6		
GM-11	Security Factor	The decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the Current Investor Security UPB amount.		Numeric	1.8	10		$(\text{Current Investor Loan UPB}) / (\text{Issuance Investor Loan UPB})$ • Round to eighth decimal

Fannie Mae Single-Family Disclosure Guide
GinnieMae Backed Megas Factor
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
GM-12	WA Loan Age	The weighted average number of scheduled payments from the time the loans were originated or modified up to and including the current reporting period.		Numeric		3		$\frac{\text{Sum}((\text{Loan Age}) * (\text{Investor Loan UPB}))}{\text{Sum}(\text{Investor Loan UPB})}$ <ul style="list-style-type: none"> Round to the nearest integer For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
GM-13	Scheduled Distribution Date	The date of the scheduled investor payment.		Date	MMCCYY	6		
GM-14	WA Issuance Interest Rate	The weighted average interest rate of the loans in effect at the time the security was issued.		Numeric	2.3	6		$\frac{\text{Sum}((\text{Interest Rate}) * (\text{Issuance Investor Loan UPB}))}{\text{Sum}(\text{Issuance Investor Loan UPB})}$
GM-15	WA Issuance Remaining Months to Maturity	The weighted average number of scheduled monthly payments that will reduce the Investor Loan UPB to zero, at the time the security was issued.		Numeric		3		$\frac{\text{Sum}((\text{Loan Remaining Months to Maturity}) * (\text{Issuance Investor Loan UPB}))}{\text{Sum}(\text{Issuance Investor Loan UPB})}$ <ul style="list-style-type: none"> Round up to the nearest integer

Fannie Mae Single-Family Disclosure Guide
Appendix A - Indices
November 2024

Index Code	Index Description	Index Code	Index Description
001	11thdist_Dly_Guar_Rate	033	FRM_Conv_60Day_Posted_Yld_SA
002	CD_6Mo_Sec_Mrkt_Mnth_Avg	034	FTSE USD IBOR Consumer Cash Fallback 1-Month
003	CD_6Mo_Wkly	035	FTSE USD IBOR Consumer Cash Fallback 1-Month
004	CMT_10Yr_Mnth	036	FTSE USD IBOR Consumer Cash Fallback 1-Month
005	CMT_10Yr_Wkly_Avg	037	FTSE USD IBOR Consumer Cash Fallback 12-Month
006	CMT_1Yr_Cuml_Avg_Prior12_Mnth_Avg	038	FTSE USD IBOR Consumer Cash Fallback 12-Month
007	CMT_1Yr_Cuml_Mnth_Avg_4Wks_Wkly_Avg	039	Retired
008	CMT_1Yr_Cuml_Avg_Prev12_Mnth_Avg	040	FTSE USD IBOR Consumer Cash Fallback 6-Month
009	CMT_1Yr_Mnth_Avg	041	FTSE USD IBOR Consumer Cash Fallback 6-Month
010	CMT_1Yr_Wkly_Avg	042	FTSE USD IBOR Consumer Cash Fallback 6-Month
011	CMT_2Yr_Wkly_Avg	043	FTSE USD IBOR Consumer Cash Fallback 6-Month
012	CMT_3Yr_Mnth_Avg	044	FTSE USD IBOR Consumer Cash Fallback 6-Month
013	CMT_3Yr_Wkly_Avg	045	MM_6Mo_Combank_Wkly
014	CMT_5Yr_Wkly_Avg	046	PRIM_MORT_MRKT_SRVY_PLUS (aka MIRS Transition Index)
015	CMT_5Yr_Mnth_Cuml_Avg_4Wks_Wkly_Avg	047	Ntl_Avg_Effective_Rate
016	CMT_5Yr_Mnth_Avg	048	Prime_WSJ_Dly
017	CMT_6Mo_Wkly_Avg	049	RNY_Fre_30Yr_60Day_Dly
018	CMT_7Yr_Mnth_Avg	050	Tbill_1Yr_Disc_Mnth_Avg
019	CMT_Blend_1Yr_Wkly_Avg	051	Tbill_1Yr_Disc_Wkly_Avg
020	COFI_12Mo_11thdist_Cuml_Avg	052	Tbill_6Mo_Cuml_Avg_Prev26_Wkly_Avg
021	Enterprise 11th District COFI Replacement Index Formerly 11th District COFI - Transition Feb2022	053	Tbill_6Mo_Disc_Cuml_Avg_Prev4_Wkly_Avg
022	COFI_1Mo_7thdist	054	Tbill_6Mo_Disc_Mnth_Avg
023	COFI_1Mo_Ntl_Mnth_Avg	055	Tbill_6Mo_Disc
024	COFI_6Mo_11thdist	056	Tbill_6Mo_Inv_Cuml_Avg_Prev4_Wkly_Avg
025	COFI_6Mo_Ca	057	Tbill_6Mo_Inv
026	COFI_Fed_Qrty_Avg	058	Tbill_6Mo_Sec_Wkly_Avg
027	COFI_Fre	059	ICE_5yr_Int_Rate_SWAP
028	COS_1Mo_Wellsfargo	060	COFI_1Mo_4thDist
029	FRM_Conv_30Day_Posted_Yld_AA	061	30-Day Average SOFR
030	FRM_Conv_30Day_Posted_Yld_SA	062	Tbill_1yr_Auct_Mnth_Avg
031	FRM_Conv_60Day_30Yr_Aa_Dly	063	CMT-1Yr_Mnth_Avg_Of_Wkly_Avg
032	FRM_Conv_60Day_Posted_Yld_AA	555	Mixed indices

Fannie Mae Single-Family Disclosure Guide
Appendix B - Property State
November 2024

Property State Code	Property State Description	Property State Code	Property State Description
AK	Alaska	MT	Montana
AL	Alabama	NC	North Carolina
AR	Arkansas	ND	North Dakota
AZ	Arizona	NE	Nebraska
CA	California	NH	New Hampshire
CO	Colorado	NJ	New Jersey
CT	Connecticut	NM	New Mexico
DC	District of Columbia	NV	Nevada
DE	Delaware	NY	New York
FL	Florida	OH	Ohio
GA	Georgia	OK	Oklahoma
GU	Guam	OR	Oregon
HI	Hawaii	PA	Pennsylvania
IA	Iowa	PR	Puerto Rico
ID	Idaho	RI	Rhode Island
IL	Illinois	SC	South Carolina
IN	Indiana	SD	South Dakota
KS	Kansas	TN	Tennessee
KY	Kentucky	TX	Texas
LA	Louisiana	UT	Utah
MA	Massachusetts	VA	Virginia
MD	Maryland	VI	Virgin Islands
ME	Maine	VT	Vermont
MI	Michigan	WA	Washington
MN	Minnesota	WI	Wisconsin
MO	Missouri	WV	West Virginia
MS	Mississippi	WY	Wyoming

Fannie Mae Single-Family Disclosure Guide
Multiclass Publication Times
November 2024

Business Name	File Name ¹	Publication Date	Publication Timing	Process Cycle	Products	Archive Availability	Location
Deal Summary	FNM_DEAL#_SUMMARY.JSON	Print date (no later than 2 Business Days before settlement)	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Issuance	REMIC SMBS	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
Delay Floater Reset File Indices	FNM_RESET_D_YYYYMM. TXT	Business Day 1 2 Business Days before EOM	6:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Delay Floater Reset Rates File File	FNM_RESET_D_RATES_YYYYMM FNM_RESET_D_RATES_YYYYMM_REV	Business Day 5	6:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Excess Servicing Fee Monthly Security Factor File	FNM_ESF_MS_YYYYMM. TXT	Business Day 4	4:30 PM Eastern Time	Monthly	Excess Servicing Fee	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Excess Servicing Fee Monthly Security Supplemental File	FNM_ESF_MSS_YYYYMM. TXT	Business Day 4	4:30 PM Eastern Time	Monthly	Excess Servicing Fee	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Excess Servicing Fee Security Issuance File	FNM_DEAL#_ESF_IS_YYYYMM.TXT	2 Business Days before settlement date	Every 2 hours between 6:30 AM - 6:30 PM Eastern Time	Issuance	Excess Servicing Fee	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
Excess Servicing Fee Security Supplemental Issuance Files	FNM_DEAL#_ESF_ISS_YYYYMM. TXT	2 Business Days before settlement date	Every 2 hours between 6:30 AM - 6:30 PM Eastern Time	Issuance	Excess Servicing Fee	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
Final Data Statements	FNM_Deal#_FDS.TXT FNM_Deal#_FDS.REV.TXT	Multiple times per deal process: Preliminary – collateral is delivered or updated Final – settlement date	Every 2 hours between 6:30 AM - 6:30 PM Eastern Time	Issuance	REMIC SMBS	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
No Delay Floater Reset File	NODELAY_YYYYMM.TXT	2 Business Days before Calendar Day 25	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
No Delay Floater Reset File Indices	FNM_RESET_ND_YYYYMM. TXT	Business Day 1 2 Business Days before Calendar Days 15,17,18,20,25	6:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
No Delay Floater Reset Rates File -	FNM_RESET_ND_RATES_YYYYMM FNM_RESET_ND_RATES_YYYYMM_REV	1 Business Days before Calendar Day 25	6:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
PAC Schedule	FNM_DEAL#_PAC. TXT	Print date (no later than 2 Business Days before settlement)	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Issuance	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section

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Multiclass Publication Times
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Business Name	File Name ¹	Publication Date	Publication Timing	Process Cycle	Products	Archive Availability	Location
Prospectus Supplement	FNM_DEAL#_SUPPLEMENT	Print date (no later than 2 Business Days before settlement)	6:30 AM, 11:30 AM, 3:30 PM, 6:30 PM Eastern Time upon receipt	Issuance	REMIC SMBS	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
Recently Priced Dealer Report	FNM_DealerReport_YYYYMM.XLS FNM_DealerReport_YYYYMM.PDF	Print date (no later than 2 Business Days before settlement)	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Issuance	REMIC SMBS	Current month + 12 historical months	<ul style="list-style-type: none"> • PoolTalk - Files & Reports Section
Relay File	FNM_DEAL#_RELAY.TXT	Print date (no later than 2 Business Days before settlement)	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Issuance	REMIC SMBS	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk – Deal Section
REMIC Collateral (RC) Loan Level File	RC_YYYYMM.ZIP	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
REMIC Component File	FNM_REMIC_COMPONENT_YYYYMM_DD.TXT	Business Day 4	4:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
REMIC Factor File	FNM_REMIC_YYYYMM_DD.TXT	Business Day 4 Business Day 8 Non-standard deals: 2 Business Days before Calendar Days 2,4,17,18,20,25	4:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
REMIC Shortfall File	FNM_REMIC_SHORT_YYYYMM_DD.TXT	Business Day 4 Business Day 8	4:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Remittance Report	DEAL_YYYYMM_SUMMARY.PDF	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
SIFMA	SIFMA_YYYYMM.TXT	1 Business Day before Calendar Days 2,4, 17,18,20,25 File cumulative when published	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
SMBS Factor File	FNM_SMBS_YYYYMM_DD.TXT	Business Day 4 Business Day 8	4:30 PM Eastern Time	Monthly	SMBS	Indefinitely	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
Supplemental Factor	REMICSUP_YYYYMM.TXT	1 Business Day before Calendar Days 2,4, 17,18,20,25 File cumulative when published	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Files & Reports Section
WAS REMIC - Deal Level File	DEAL_#_YYYYMM_DLS.PDF	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Deal Section
WAS REMIC - Loan Level File	DEAL#_YYYYMM_LL.ZIP	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Deal Section

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Business Name	File Name ¹	Publication Date	Publication Timing	Process Cycle	Products	Archive Availability	Location
WAS REMIC - Summary Report	DEAL#_YYYYMM__LLS.PDF	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • SFTP • PoolTalk - Deal Section
WAS Whole Loan & SMBS Pseudo Pool Report	WLPsuedo_YYYYMM.TXT	1 Business Day before Calendar Days 2,4, 17,18,20,25 File cumulative when published	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • PoolTalk - Files & Reports Section
Whole Loan REMIC - Loan Level Report	DEAL#_YYYYMM_LLD.TXT	1 Business Day after Calendar Day 27	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • PoolTalk - Deal Section
Whole Loan REMIC – Delinquency Report	DEAL#_WL_Delinquency_Report_YYYYMM.xls	Business Day 8	6:30 AM, 11:30 AM, 3:30 PM, 4:30 PM Eastern Time	Monthly	REMIC	Current month + 12 historical months	<ul style="list-style-type: none"> • PoolTalk - Deal Section

MM and DD in file name represents the posting date in the issuance and monthly files.

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Final Data Statement
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
CL-01	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
CL-02	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8		
CL-03	Collateral Issuer	The issuer for each security that directly underlies the resecuritization.	FNM = Fannie Mae FRE = Freddie Mac GM = Ginnie Mae	String		3		
CL-04	Collateral Prefix	For each security that directly underlies the resecuritization, the designation assigned by the issuer denoting the type of the loans and the security at the time of resecuritization.		String		3		
CL-05	Collateral Security Identifier	For each security that directly underlies the resecuritization, the unique designation assigned to the security by the issuer.		String		6		
CL-06	Collateral CUSIP	For each security that directly underlies the resecuritization, the unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
CL-07	Collateral Current WA Net Interest Rate	For each security that directly underlies the resecuritization, the weighted average interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
CL-08	Collateral Issue Date	For each security that directly underlies the resecuritization, the date on which the security was issued.		Date	MMDDCCYY	8		
CL-09	Collateral Maturity Date	For each security that directly underlies the resecuritization, the month and year that the final scheduled payment on the loan is due at the time of resecuritization.		Date	MMCCYY	6		
CL-10	Collateral Issuance Investor Security UPB	For each security that directly underlies the resecuritization, the unpaid principal balance of the loans as they contribute to the balance of the security.		Numeric	12.2	15		
CL-11	Collateral Issuance Contributing Investor Security UPB	For each security that directly underlies the resecuritization, the pro-rata share of the Investor Issuance Security UPB amount.		Numeric	12.2	15		
CL-12	Collateral Current Contributing Investor Security UPB	For each security that directly underlies the resecuritization, the pro-rata share of the Current Investor Security UPB amount.		Numeric	12.2	15		
CL-13	Collateral WA Interest Rate at Settlement	For each security that directly underlies the resecuritization, the weighted average interest rate at the time of resecuritization.		Numeric	2.3	6		

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Final Data Statement
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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
CL-14	Collateral WA Remaining Months to Maturity at Settlement	For each security that directly underlies the resecuritization, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero at the time of resecuritization. <i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i>		Numeric		3		
CL-15	Collateral WA Loan Age at Settlement	For each security that directly underlies the resecuritization, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period at the time of resecuritization.		Numeric		3		
CL-16	Collateral Trust Identifier	An identifier assigned to the trust when established into a multiclass resecuritization.		String		50	Applicable only for underlying REMIC collateral	
CL-17	Collateral Class Identifier	An identifier assigned to the class when established into a multiclass resecuritization.		String		5	Applicable only for underlying REMIC collateral	
CL-18	Group Identifier	An identifier assigned to the group when established into a multiclass resecuritization.		String		5	Applicable only for underlying REMIC and SMBS collateral	

Fannie Mae Single-Family Disclosure Guide
REMIC Factor
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
RF-01	Trust Identifier	An identifier assigned to the trust when established into a multiclass securitization.		String		50		
RF-02	Class Identifier	An identifier assigned to the class when established into a multiclass securitization.		String		5		
RF-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
RF-04	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6		
RF-05	Class Issuance Investor Security UPB	The unpaid principal balance of the security at the time the security was issued.		Numeric	14.2	17		
RF-06	Security Factor	The decimal value that, when multiplied by the Class Issuance Investor Security UPB amount, equals the Class Current Investor Security UPB amount.		Numeric	9.8	18		(Class Current Investor Security UPB)/(Class Issuance Investor Security UPB) • Round to eight decimal place
RF-07	Class Current Investor Security UPB	The unpaid principal balance of the security as of the current reporting period.		Numeric	14.2	17		Class Issuance Investor Security UPB * Security Factor
RF-08	Interest Rate	The rate at which interest is calculated to be paid on the security during the current period.		Numeric	12.6	19		
RF-09	Interest Factor	The decimal value that, when multiplied by Class Investor Security UPB amount (for prior reporting period), equals the amount of interest paid in the current period.		Numeric	9.8	18		(Interest Rate / 1.2) / 1000 • Round to eight decimal place
RF-10	Interest Paid	The amount of interest paid in the period to the certificateholder.		Numeric	14.2	17		Interest Factor * Class Issuance Investor Security UPB
RF-11	Principal Paydown Factor	The decimal value that, when multiplied by Class Investor Security UPB - Issuance amount, equals the amount of principal paid in the current period.		Numeric	9.8	18		(Class Current Investor Security UPB)/(Class Issuance Investor Security UPB) • Round to eight decimal place
RF-12	Principal Paydown Amount	The amount of principal paid in the period to the certificateholder.		Numeric	14.2	17		Principal Paydown Factor * Class Issuance Investor Security UPB
RF-13	Accretion Factor	The decimal value that, when multiplied by Class Investor Security UPB - Issuance, equals the amount of accrued but unpaid interest that has been added in the current period to the unpaid principal balance of the security.		String	9.8	18		Security Accretion Amount / Class Issuance Investor Security UPB • Round to eight decimal place

Fannie Mae Single-Family Disclosure Guide
 REMIC Factor
 November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
RF-14	Accretion Amount	The amount of accrued but unpaid interest that has been added in the current period to the unpaid principal balance of the security.		String	14.2	17		
RF-15	Scheduled Distribution Date	The date of the scheduled investor payment.		Date	MMCCYY	6		
RF-16	Yield Maintenance Premium/ Penalty Amount	The prepayment premium allowing investors to attain the same yield as if the borrower made all scheduled mortgage payments until maturity.		Numeric	14.2	17	Not applicable for Fannie Mae issued securities	
RF-17	Notes	Additional information about the loans in the security.		String		2048		

Fannie Mae Single-Family Disclosure Guide
SMBS Factor
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
SF-01	Trust Identifier	An identifier assigned to the trust when established into a multiclass securitization.		String		50		
SF-02	Class Identifier	An identifier assigned to the class when established into a multiclass securitization.		String		5		
SF-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SF-04	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6		
SF-05	Class Issuance Investor Security UPB	The unpaid principal balance of the security at the time the security was issued.		Numeric	14.2	17		
SF-06	Security Factor	The decimal value that, when multiplied by the Class Issuance Investor Security UPB amount, equals the Class Current Investor Security UPB amount.		Numeric	9.8	18		(Class Current Investor Security UPB)/(Class Issuance Investor Security UPB) • Round to eight decimal place
SF-07	Class Current Investor Security UPB	The unpaid principal balance of the security as of the current reporting period.		Numeric	14.2	17		Class Issuance Investor Security UPB * Security Factor
SF-08	Interest Rate	The rate at which interest is calculated to be paid on the security during the current period.		Numeric	12.6	19		
SF-09	Interest Factor	The decimal value that, when multiplied by Class Investor Security UPB amount (for prior reporting period), equals the amount of interest paid in the current period.		Numeric	9.8	18		(Interest Rate / 1.2) / 1000 • Round to eight decimal place
SF-10	Interest Paid	The amount of interest paid in the period to the certificateholder.		Numeric	14.2	17		Interest Factor * Class Issuance Investor Security UPB
SF-11	Principal Paydown Factor	The decimal value that, when multiplied by Class Investor Security UPB - Issuance amount, equals the amount of principal paid in the current period.		Numeric	9.8	18		(Class Current Investor Security UPB)/(Class Issuance Investor Security UPB) • Round to eight decimal place
SF-12	Principal Paydown Amount	The amount of principal paid in the period to the certificateholder.		Numeric	14.2	17		Principal Paydown Factor * Class Issuance Investor Security UPB
SF-13	Accretion Factor	The decimal value that, when multiplied by Class Investor Security UPB - Issuance, equals the amount of accrued but unpaid interest that has been added in the current period to the unpaid principal balance of the security.		String	9.8	18		Security Accretion Amount / Class Issuance Investor Security UPB • Round to eight decimal place

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 SMBS Factor
 November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
SF-14	Accretion Amount	The amount of accrued but unpaid interest that has been added in the current period to the unpaid principal balance of the security.		String	14.2	17		
SF-15	Scheduled Distribution Date	The date of the scheduled investor payment.		Date	MMCCYY	6		
SF-16	Yield Maintenance Premium/ Penalty Amount	The prepayment premium allowing investors to attain the same yield as if the borrower made all scheduled mortgage payments until maturity.		Numeric	14.2	17	Not applicable for Fannie Mae issued securities	
SF-17	Notes	Additional information about the loans in the security.		String		2048		

Fannie Mae Single-Family Disclosure Guide
Component Factor
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
CF-01	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
CF-02	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
CF-03	Component Identifier	The unique alpha and/or numeric designation assigned to each group in the sub-deal.		String		3	Last Character in Class in current state	
CF-04	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
CF-05	Class Issuance Investor Security UPB	The unpaid principal balance of the security as of issuance at the component level.		Numeric	14.2	17		
CF-06	Security Factor	The decimal value that, when multiplied by the Class Issuance Investor Security UPB amount, equals the Class Current Investor Security UPB amount at the component level.		Numeric	9.8	18		(Class Component Current Investor Security UPB)/(Class Component Issuance Investor Security UPB) • Round to eight decimal place
CF-07	Interest Rate	The rate at which interest is calculated to be paid on the security during the current period at the component level.		Numeric	12.6	19		

Fannie Mae Single-Family Disclosure Guide
 REMIC Shortfall
 November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
SFF-01	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
SFF-02	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
SFF-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
SFF-04	Current Shortfall Amount	The difference between the interest payments received from the underlying collateral and the interest distribution to be paid to investors in the security in the current reporting period.		Numeric	14.2	17		Collateral Interest Payments - Interest Paid to Investors
SFF-05	Cumulative Shortfall Amount	The cumulative difference between the interest payments received from the underlying collateral and the interest distributions paid to investors in the security.		Numeric	14.2	17		Prior Period Shortfall Amount + Current Period Shortfall Amount

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ESF Security File
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-01	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
X-02	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
X-03	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
X-04	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
X-05	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
X-06	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8		
X-07	WA Class Identifier	The indicator denoting the pseudo pool is a weighted average or a fixed strip percentage.	Y = Yes N = No	String		1		
X-08	WA Excess Strip Percent	The weighted average percentage of excess servicing stripped from the collateral.		Numeric	2.9	12		$\frac{(\text{Sum} ((\text{loan excess strip percent}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ for all active loans in pseudo pool *100 • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-09	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6		
X-10	Updated Longest Maturity Date	The updated month and year in which the final payment on the security is scheduled to be made based on the longest maturity date of the remaining loans in the security.		Date	MMCCYY	6		
X-11	Issuance Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17		(Sum (Issuance Investor Loan UPB))
X-12	Current Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the current balance of the security.		Numeric	14.2	17		(Sum (Current Investor Loan UPB))

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ESF Security File
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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-13	WA Net Interest Rate	The weighted average interest rate of the loans at the time the security was issued less servicing fees and guarantor fees.		Numeric	2.5	8		$\frac{(\text{Sum}((\text{Net Interest Rate}) * (\text{Investor Loan UPB})))}{(\text{Sum}(\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-14	WA Net Interest Rate with Excess Contribution Percent	The weighted average interest rate of the loans at the time the security was issued less servicing fees and guarantor fees, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric	2.3	6		$\frac{((\text{Sum}((\text{Net Interest Rate}) * (\text{Investor Loan UPB}) * \text{loan strip percent}))}{(\text{Sum}(\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-15	WA Issuance Interest Rate	The weighted average interest rate of the loans in effect at the time the security was issued.		Numeric	2.3	6		$\frac{(\text{Sum}((\text{Interest Rate}) * (\text{Issuance Investor Loan UPB})))}{(\text{Sum}(\text{Issuance Investor Loan UPB}))}$
X-16	WA Issuance Interest Rate with Excess Contribution Percent	The weighted average interest rate of the loans in effect at the time the security was issued, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric	2.3	6		$\frac{((\text{Sum}((\text{Interest Rate}) * (\text{Investor Loan UPB}) * \text{loan strip percent}))}{(\text{Sum}(\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$
X-17	WA Current Interest Rate	The weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6		$\frac{(\text{Sum}((\text{Interest Rate}) * (\text{Current Investor Loan UPB})))}{(\text{Sum}(\text{Current Investor Loan UPB}))}$
X-18	WA Current Interest Rate with Excess Contribution Percent	The weighted average interest rate of the loans in effect during the current reporting period, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric	2.3	6		$\frac{((\text{Sum}((\text{Interest Rate}) * (\text{Investor Loan UPB}) * \text{loan strip percent}))}{(\text{Sum}(\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$
X-19	WA Issuance Remaining Months to Maturity	<p>The weighted average number of scheduled monthly payments that will reduce the Investor Loan UPB to zero, at the time the security was issued.</p> <p><i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i></p>		Numeric		3		$\frac{(\text{Sum}((\text{Loan Remaining Months to Maturity}) * (\text{Issuance Investor Loan UPB})))}{(\text{Sum}(\text{Issuance Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round up to the nearest integer
X-20	WA Issuance Remaining Months to Maturity with Excess Contribution Percent	<p>The weighted average number of scheduled monthly payments that will reduce the Investor Loan UPB to zero, at the time the security was issued, which is additionally weighted by the applicable Excess Yield Rates of those loans.</p> <p><i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i></p>		Numeric		3		$\frac{((\text{Sum}((\text{Loan Remaining Months to Maturity}) * (\text{Investor Loan UPB}) * \text{loan strip percent}))}{(\text{Sum}(\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round up to the nearest integer

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-21	WA Current Remaining Months to Maturity	The weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero. <i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i>		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Remaining Months to Maturity}) * (\text{Current Investor Loan UPB})))}{(\text{Sum} (\text{Current Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round up to the nearest integer. During the month of issuance the WA Issuance Remaining Months to Maturity value would be the same as the WA Current Remaining Months to Maturity value.
X-22	WA Current Remaining Months to Maturity with Excess Contribution Percent	The weighted average number of scheduled monthly payments that will reduce the Investor Loan UPB to zero, at the time the security was issued, which is additionally weighted by the applicable Excess Yield Rates of those loans. <i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i>		Numeric		3		$\frac{((\text{Sum} ((\text{Loan Remaining Months to Maturity}) * (\text{Investor Loan UPB}) * \text{loan strip percent})))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round up to the nearest integer. During the month of issuance the WA Issuance Remaining Months to Maturity value would be the same as the WA Current Remaining Months to Maturity value.
X-23	WA Loan Age	The weighted average number of scheduled payments from the time the loans were originated or modified up to and including the current reporting period.		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Age}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-24	WA Loan Age with Excess Contribution Percent	The weighted average number of scheduled payments from the time the loans were originated or modified up to and including the current reporting period, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric		3		$\frac{((\text{Sum} ((\text{Loan Age}) * (\text{Investor Loan UPB}) * \text{loan strip percent})))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round to the nearest integer. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-25	WA Loan Term	The weighted average number of months in which regularly scheduled borrower payments are due.		Numeric		3		$\frac{(\text{Sum} ((\text{Loan Term}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-26	WA Loan Term with Excess Contribution Percent	The weighted average number of months in which regularly scheduled borrower payments are due, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric	3	3		$\frac{((\text{Sum} ((\text{Loan Term}) * (\text{Investor Loan UPB}) * \text{loan strip percent})) / (\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent})))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round to the nearest integer. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-27	WA Mortgage Loan Amount	<p>The weighted average dollar amount of the loans as stated on the notes at the time the loans were originated or modified.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i></p>		Numeric	9.2	12		$\frac{(\text{Sum} ((\text{Mortgage Loan Amount}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Mortgage Loan Amount is rounded to the nearest thousand. If Mortgage Loan Amount < \$500, set to actual value. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-28	WA Mortgage Loan Amount with Excess Contribution Percent	<p>The weighted average dollar amount of the loans as stated on the notes at the time the loans were originated or modified, which is additionally weighted by the applicable Excess Yield Rates of those loans.</p> <p><i>For performing, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i></p>		Numeric	9.2	12		$\frac{(\text{Sum} ((\text{Mortgage Loan Amount}) * (\text{Investor Loan UPB}) * \text{loan strip percent})) / (\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Mortgage Loan Amount is rounded to the nearest thousand. If Mortgage Loan Amount < \$500, set to actual value. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-29	Average Mortgage Loan Amount	<p>The simple average dollar amount of the loans as stated on the notes at the time the loans were originated or modified.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i></p>		Numeric	9.2	12		<p>$(\text{Sum (Mortgage Loan Amount)}) / (\text{Count (Loans in Pool)})$</p> <ul style="list-style-type: none"> • Mortgage Loan Amount is rounded to the nearest thousand. • If Mortgage Loan Amount < \$500, set to actual value. • For Loan Count in Pool, the issuance file calculation is based upon the issuance date loan count and the monthly file calculation is based upon the current loan count.
X-30	WA Loan-To-Value (LTV)	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the value of the properties.</p> <p>Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	999 = Not Available	<p>$(\text{Sum } ((\text{LTV Ratio}) * (\text{Investor Loan UPB}))) / (\text{Sum (Investor Loan UPB)})$</p> <ul style="list-style-type: none"> • Round to the nearest integer. • A loan with LTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA LTV calculation. If all loans have a LTV of 999, then the WA LTV will be 999. • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
X-31	WA Loan-To-Value (LTV) with Excess Contribution Percent	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the value of the properties, which is additionally weighted by the applicable Excess Yield Rates of those loans.</p> <p>Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</p> <p><i>For performing, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	999 = Not Available	<p>$((\text{Sum } ((\text{LTV Ratio}) * (\text{Investor Loan UPB}) * \text{loan strip percent})) / (\text{Sum (Investor Loan UPB)} * (\text{loan excess strip percent})))$</p> <ul style="list-style-type: none"> • Round to the nearest integer. • A loan with LTV < 1% or > 998% and disclosed as "Not Available", indicated by 999, will be excluded from the security WA LTV with Excess Contribution Percent calculation. If all loans have a LTV of 999, then the WA LTV with Excess Contribution Percent will be 999. • For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.

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ESF Security File
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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-32	WA Combined Loan-To-Value (CLTV)	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the properties.</p> <p>Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{CLTV}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with CLTV < 1% or > 998% and disclosed as “Not Available”, indicated by 999, will be excluded from the security WA CLTV calculation. If all loans have a CLTV of 999, then the WA CLTV will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-33	WA Combined Loan-To-Value (CLTV) with Excess Contribution Percent	<p>The weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the properties, which is additionally weighted by the applicable Excess Yield Rates of those loans.</p> <p>Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</p> <p><i>For performing, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	999 = Not Available	$\frac{((\text{Sum} ((\text{CLTV}) * (\text{Investor Loan UPB}) * \text{loan strip percent})))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with CLTV < 1% or > 998% and disclosed as “Not Available”, indicated by 999, will be excluded from the security WA CLTV with Excess Contribution Percent calculation. If all loans have a CLTV of 999, then the WA CLTV with Excess Contribution Percent will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Investor Loan UPB and the monthly file calculation is based upon the Current Investor Loan UPB.
X-34	WA Debt-To-Income (DTI)	<p>The weighted average ratio obtained by dividing the total monthly debt expenses by the total monthly incomes of the borrowers at the time the loans were originated or modified.</p>		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{DTI}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with DTI < 1 or > 65 and disclosed as “Not Available”, indicated by 999, will be excluded from the security WA DTI calculation. If all loans have a DTI of 999, then the WA DTI will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-35	WA Debt-To-Income (DTI) with Excess Contribution Percent	The weighted average ratio obtained by dividing the total monthly debt expenses by the total monthly incomes of the borrowers at the time the loans were originated or modified, which is additionally weighted by the applicable Excess Yield Rates of those loans.		Numeric		3	999 = Not Available	$\frac{(\text{Sum} ((\text{DTI}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent}))}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with DTI < 1 or > 65 and disclosed as “Not Available”, indicated by 999, will be excluded from the security WA DTI with Excess Contribution Percent calculation. If all loans have a DTI of 999, then the WA DTI with Excess Contribution Percent will be 999. For Investor Loan UPB, the issuance file calculation is based upon the Issuance Loan UPB and the monthly file calculation is based upon the Current Loan UPB.
X-36	WA Borrower Credit Score	<p>The weighted average standardized credit score used to evaluate the borrower during the loan origination process.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		4	9999 = Not Available	$\frac{(\text{Sum} ((\text{Borrower Credit Score}) * (\text{Investor Loan UPB})))}{(\text{Sum} (\text{Investor Loan UPB}))}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with Borrower Credit Score < 300 or > 850 and disclosed as “Not Available”, indicated by 9999, will be excluded from the security WA Borrower Credit Score calculation. If all loans have a Borrower Credit Score of 9999, then the WA Borrower Credit Score will be 9999. The issuance file calculation is based upon the Issuance Investor Loan UPB. The monthly file calculation is based upon the Scheduled Investor Loan UPB.

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-37	WA Borrower Credit Score with Excess Contribution Percent	<p>The weighted average standardized credit score used to evaluate the borrower during the loan origination process, which is additionally weighted by the applicable Excess Yield Rates of those loans.</p> <p><i>For performing, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		4	9999 = Not Available	$\frac{((\text{Sum} ((\text{Borrower Credit Score}) * (\text{Investor Loan UPB}) * \text{loan strip percent})) / (\text{Sum} (\text{Investor Loan UPB}) * (\text{loan excess strip percent})))}{1}$ <ul style="list-style-type: none"> Round to the nearest integer. A loan with Borrower Credit Score < 300 or > 850 and disclosed as “Not Available”, indicated by 9999, and will be excluded from the security WA Borrower Credit Score with Excess Contribution Percent calculation. If all loans have a Borrower Credit Score of 9999, then the WA Borrower Credit Score with Excess Contribution Percent will be 9999. The issuance file calculation is based upon the Issuance Investor Loan UPB. The monthly file calculation is based upon the Scheduled Investor Loan UPB.
X-38	Loan Count	The total number of loans in the security.		Numeric		9		
X-39	Third Party Origination UPB Percent	<p>The percentage of the aggregate Investor Loan UPB that were originated by a third party, to include Broker and Correspondent originations.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric	3.2	6		$\frac{\text{Sum} (\text{Investor Loan UPB for Channel = Broker}) + (\text{Investor Loan UPB for Channel = Correspondent})}{\text{Sum} (\text{Investor Loan UPB})}$
X-40	Seller Name	The name of the entity that sold the loans to the issuer.		String		100		
X-41	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100		
X-42	Involuntary Loan Removal (Loan Count)	For the current reporting period, the number of loans removed from the security for involuntary reasons including loan delinquencies, loss-mitigation efforts and lender repurchases.		Numeric		9	Applicable only for Monthly Disclosure	
X-43	Involuntary Loan Removal (Prior Month UPB)	For the current reporting period, the aggregate prior period Investor UPB of loans removed from the security for involuntary reasons including delinquencies, loss mitigation efforts and lender repurchases.		Numeric	14.2	17	Applicable only for Monthly Disclosure	
X-44	Security Factor Date	The month and year on which the corresponding factor is effective.		Date	MMCCYY	6		
X-45	Notes	Additional information about the loans in the security.		String		2048		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
X-46	Issuance Investor Security UPB with excess contribution percent	The aggregate unpaid principal balance of the loans with the excess contribution percent applied as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17		(Sum (Issuance Investor Loan UPB) * (loan excess strip percent))
X-47	Current Investor Security UPB with excess contribution percent	The aggregate unpaid principal balance of the loans with the excess contribution percent applied to the current balance of the security.		Numeric	14.2	17		(Sum (Current Investor Loan UPB) * (loan excess strip percent))

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ESF Security Supplemental
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Security Supplemental File Record Type Description			
Record Type #	Record Type Description	Record Type #	Record Type Description
1	Deciles	14	Property State Stratification
2	Loan-To-Value (LTV) Not Available Stratification	15	Seller Name Stratification
3	Combined Loan-To-Value (CLTV) Not Available Stratification	16	Servicer Name Stratification
4	Debt-To-Income (DTI) Not Available Stratification	17	Mortgage Insurance Coverage Stratification
5	Borrower Credit Score Not Available Stratification	18	Mortgage Insurance Cancellation Indicator Stratification
6	Days Delinquent Stratification	19	Government Insured/Guarantee Stratification
7	Number of Borrowers Stratification	20	Origination Year Stratification
8	First Time Home Buyer Stratification	21	Property Valuation Method Stratification
9	Loan Purpose Stratification	22	Borrower Assistance Plan Stratification
10	Occupancy Status Stratification	23	Alternative Delinquency Resolutions Type
11	Number of Units Stratification	24	Number of Alternative Delinquency Resolutions
12	Property Type Stratification	25	Special Eligibility Program Stratification
13	Channel Stratification	26	Interest Rate Buydown Type Stratification

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 01	Record Type = 1	Deciles		String		2		
XI - 02	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 03	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 04	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 05	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 06	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 07	Decile	Based on the Current Investor UPB for all of the active loans in a security, distributed across the following decile data points: MIN, 10%, 20%, 30%, 40%, MED, 60%, 70%, 80%, 90%. MAX	MAX 90 80 70 60 MED 40 30 20 10 MIN	String		3		
XI - 08	Mortgage Loan Amount	The dollar amount of the loan as stated on the note at the time the loan was originated or modified. For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500	
XI - 09	Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
XI - 10	Current Net Interest Rate	The interest rate of the loan in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6		
XI - 11	Loan Term	For fixed-rate, adjustable-rate and interest-only mortgages, the number of scheduled monthly payments of the mortgage, between the first payment date and the maturity date of the mortgage.		Numeric		3		(Sum (Issuance Investor Loan UPB) * (loan excess strip percent))
XI - 12	Remaining Months to Maturity	The number of remaining months that will reduce the Current Investor Loan UPB to zero. For fixed-rate loans, this value takes into account the impact of any curtailments.		Numeric		3		(Sum (Current Investor Loan UPB) * (loan excess strip percent))

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 13	Loan Age	The number of months from the time the loan was originated or modified up to and including the current reporting period.		Numeric		4		
XI - 14	Loan-to-Value (LTV)	The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		3		
XI - 15	Combined Loan-to-Value (CLTV)	The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. Value of the property reflects either the lesser of the sales price or the property value at purchase or refinance. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		3		
XI - 16	Debt-to-Income (DTI)	The ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3		
XI - 17	Borrower Credit Score	The standardized credit score used to evaluate the borrower during the loan origination process. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		Numeric		4		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 18	Record Type = 2	Loan-to-Value (LTV) Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	
XI - 19	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 20	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 21	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 22	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 23	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 24	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 25	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 26	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 27	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 28	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 29	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 30	Record Type = 3	Combined Loan-to-Value (CLTV) Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	
XI - 31	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 32	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 33	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 34	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 35	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 36	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 37	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 38	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 39	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 40	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 41	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 42	Record Type = 4	Debt-to-Income (DTI) Not Available Stratification		String		2	Applicable only if security characteristics apply.	
XI - 43	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		(Sum (Issuance Investor Loan UPB)
XI - 44	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		(Sum (Current Investor Loan UPB)
XI - 45	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 46	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 47	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 48	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 49	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 50	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 51	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 52	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 53	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 54	Record Type = 5	Borrower Credit Score Not Available Stratification For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.		String		2	Applicable only if security characteristics apply.	
XI - 55	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 56	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 57	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 58	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 59	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 60	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 61	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 62	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 63	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 64	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 65	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 66	Record Type = 6	Days Delinquent Stratification		String		2	Applicable only for monthly disclosure	
XI - 67	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 68	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 69	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 70	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 71	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 72	Days Delinquent	The number of days for which a mortgage loan has been reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120-149 5 = 150-179 6 = 180-209 7 = 210-239 8 = 240-269 9 = 270-299 10 = 300-329 11 = 330-359 12 = 360-389 13 = 390-419 14 = 420-449 15 = 450-479 16 = 480-509 17 = 510-539 18 = 540-569 19 = 570-599 20 = 600-629 21 = 630-659 22 = 660-689 23 = 690-719 24 = 720+	String		1		
XI - 73	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 74	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 75	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 76	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 77	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 78	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 79	Record Type = 7	Number of Borrowers Stratification		String		2		
XI - 80	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 81	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 82	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 83	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 84	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 85	Number of Borrowers	The number of borrowers who, at the time the loan is originated, are obligated to repay the loan.	1 2 >2 99 = Not Available	String		2		
XI - 86	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 87	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 88	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 89	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 90	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 91	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 92	Record Type = 8	First Time Homebuyer Stratification		String		2		
XI - 93	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 94	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 95	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 96	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 97	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 98	First Time Homebuyer	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer.	Y = Yes N = No 9 = Not Available	String		1		
XI - 99	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 100	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 101	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 102	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 103	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 104	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 105	Record Type = 9	Loan Purpose Stratification		String		2		
XI - 106	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 107	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 108	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 109	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 110	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 111	Loan Purpose	The classification describing the purpose of the loan.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1		
XI - 112	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 113	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 114	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 115	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 116	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.						
XI - 117	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.						
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 118	Record Type = 10	Occupancy Status Stratification		String		2		
XI - 119	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 120	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 121	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 122	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 123	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 124	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 125	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 126	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 127	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 128	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 129	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 130	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 131	Record Type = 11	Number of Units Stratification		String		2		
XI - 132	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 133	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 134	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 135	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 136	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 137	Number of Units	The number of dwelling units in the mortgaged property at the time the loan was originated.	1 = 1 2 = 2 3 = 3 4 = 4 99 = Not Available	Numeric		2		
XI - 138	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 139	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 140	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 141	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 142	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 143	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 144	Record Type = 12	Property Type Stratification		String		2		
XI - 145	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 146	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 147	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 148	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 149	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 150	Property Type	The classification describing the type of property that secures the loan.	CP = Cooperative CO = Condominium PU = Planned Unit Development SF = Single-Family MH = Manufactured Housing 99 = Not Available	String		2		
XI - 151	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 152	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 153	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 154	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 155	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 156	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 157	Record Type = 13	Channel Stratification		String		2		
XI - 158	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 159	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 160	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 161	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 162	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 163	Channel	The origination channel used by the party that delivered the loan to the issuer. For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1		
XI - 164	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 165	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 166	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 167	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 168	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 169	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 170	Record Type = 14	Property State Stratification		String		2	See Appendix B	
XI - 171	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 172	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 173	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 174	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 175	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 176	Property State	The abbreviation denoting the location of the property securing the loan.		String		2		
XI - 177	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 178	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 179	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 180	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 181	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 182	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 183	Record Type = 15	Seller Name Stratification		String		2		
XI - 184	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 185	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 186	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 187	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 188	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 189	Seller Name	The name of the entity that sold the loan to the issuer.		String		100	Will not be updated after issuance, regardless of mergers/acquisitions.	
XI - 190	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 191	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 192	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 193	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 194	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
XI - 195	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified to and including the current reporting period.		Numeric		3		
XI - 196	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
XI - 197	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
XI - 198	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
XI - 199	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
XI - 200	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 201	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 202	Record Type = 16	Servicer Name Stratification		String		2		
XI - 203	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 204	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 205	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 206	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 207	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 208	Servicer Name	The name of the entity that services the loan during the current reporting period. Will reflect servicer names contributing > 1% of the Current Investor Security UPB.	< 1%	String		100	Servicer names contributing < 1% of the Current Investor Security UPB will be aggregated and reflected in the < 1% enumeration	
XI - 209	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 210	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 211	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 212	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 213	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
XI - 214	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3		
XI - 215	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 216	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6		
XI - 217	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
XI - 218	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3		
XI - 219	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 220	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 221	Record Type = 17	Mortgage Insurance Coverage Stratification		String		2		
XI - 222	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 223	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 224	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 225	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 226	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 227	Mortgage Insurance Coverage	The mortgage insurance coverage in effect at the time the security was issued.	WITHMI = Loans With Mortgage Insurance NOMI = Loans Without Mortgage Insurance 999 = Not Available	String		6		
XI - 228	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 229	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 230	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 231	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 232	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 233	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 234	Record Type = 18	Mortgage Insurance Cancellation Indicator Stratification		String		2		
XI - 235	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 236	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 237	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 238	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 239	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 240	Mortgage Insurance Cancellation Indicator	The indicator denoting whether the mortgage insurance has been cancelled after the security was issued.	Y = Yes N = No 7 = Not Applicable	String		1		
XI - 241	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 242	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 243	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 244	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 245	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 246	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 247	Record Type = 19	Government Insured/Guarantee Stratification		String		2	Applicable only to Government Insured/Guarantee loans.	

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 248	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 249	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 250	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 251	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 252	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 253	Government Insured/Guarantee	The classification describing the Government Insured/Guarantee Program, if any, covering the loan.	FH = FHA VA = Veterans Affairs RH = Rural Housing IH = Section 184 Indian Home 99 = Not Available	String		2		
XI - 254	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 255	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 256	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 257	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 258	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 259	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 260	Record Type = 20	Origination Year Stratification		String		2		
XI - 261	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 262	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 263	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 264	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 265	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 266	Origination Year	The year of origination of the loans in the security.		Date	CCYY	4		
XI - 267	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 268	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 269	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 270	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 271	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 272	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 273	Record Type = 21	Property Valuation Method Stratification		String		2		
XI - 274	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 275	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 276	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 277	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 278	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 279	Property Valuation Method	The method by which the value of the subject property was obtained.	A = Appraisal C = Appraisal Waiver plus Property Data Collection - Condition P = Appraisal Waiver plus Property Data Collection – Value R = GSE Targeted Refinance Programs W = Appraisal Waiver O = Other 7 = Not Applicable 9 = Not Available	String		1		
XI - 280	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 281	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 282	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 283	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 284	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 285	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 286	Record Type = 22	Borrower Assistance Plan Stratification		String		2		
XI - 287	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 288	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 289	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 290	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 291	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 292	Borrower Assistance Plan	The type of assistance plan that the borrower is enrolled in that provides temporary mortgage payment relief or an opportunity to cure a mortgage delinquency over a defined period.	F = Forbearance Plan R = Repayment Plan T = Trial Period Plan O = Other Workout Plan N = No Workout Plan 7 = Not Applicable 9 = Not Available	String		1	<p>The data in this stratification will be published on a one-month delay due to the timing of our servicing reporting cycle. For example, the values in this stratification published in July 2020 correspond to the delinquency status in the Days Delinquent+H552t Stratification published in June 2020.</p> <p>For non-delinquent loans, for which a Borrower Assistance Plan is not reported by the Servicer, this attribute will be defaulted to Not Applicable.</p> <p>The field may be populated if the loan is reported current in days delinquent stratification.</p>	
XI - 293	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 294	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 295	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 296	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 297	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 298	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 299	Record Type = 23	Alternative Delinquency Resolutions Type Stratification		String		2		
XI - 300	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 301	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 302	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 303	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 304	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 305	Alternative Delinquency Resolutions Type	The loss mitigation solution that resolves delinquencies and help homeowners remain in their homes in accordance with the servicer's contractual obligation, while allowing the loan to remain in the security.	P = Payment Deferral C = COVID-19 Payment Deferral D = Disaster Payment Deferral M = Multiple Payment Deferrals O = Other 7 = Not Applicable 9 = Not Available	String		1	Multiple enumeration is not present at the loan-level. If number of alternative delinquency resolution is greater than 1, the record will be represented as Multiple.	
XI - 306	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	14.2		
XI - 307	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 308	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 309	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 310	Total Deferral Amount	The total non-interest-bearing deferral amount related to one or more Alternative Delinquency Resolutions.		Numeric	14.2	14.2		
XI - 311	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 312	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 313	Record Type = 24	Number of Alternative Delinquency Resolutions Stratification		String		2		
XI - 314	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 315	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 316	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 317	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 318	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 319	Number of Alternative Delinquency Resolutions	The total number of Alternative Delinquency Resolutions as reported by the servicer for a specific loan.	1 2 3 4 5 >5	String		1		
XI - 320	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	14.2		
XI - 321	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 322	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 323	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 324	Total Deferral Amount	The total non-interest-bearing deferral amount related to one or more Alternative Delinquency Resolutions.		Numeric	14.2	14.2		
XI - 325	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 326	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 327	Record Type = 25	Special Eligibility Program Stratification		String		2		
XI - 328	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 329	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 330	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 331	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 332	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI - 333	Special Eligibility Program	A mortgage program with expanded eligibility criteria designed to increase and maintain home ownership.	H - Home Ready F - HFA Preferred R - RefiNow O - Other 7 - Not Applicable 9 - Not Available	String		4		
XI - 334	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 335	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		

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ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 336	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 337	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 338	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 339	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		
ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculations
XI - 340	Record Type = 26	Interest Rate Buydown Type Stratification		String		2		
XI - 341	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
XI - 342	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		5		
XI - 343	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae	String		3		
XI - 344	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
XI - 345	Security Identifier	The unique designation assigned to the security by the issuer.		String		6		
XI-346	Interest Rate Buydown Type	<p>An arrangement whereby a party deposits funds to an account which is used to temporarily reduce a borrower's monthly payment through a temporary reduction in the interest rate.</p> <ul style="list-style-type: none"> • Moderate: An Interest Rate Buydown in which the interest rate is bought down by less than or equal to 2% and for less than or equal to 24 months. Freddie Mac's product is known as Temporary. • Significant: An Interest Rate Buydown in which the interest rate is bought down by greater than 2% or for greater than 24 months. Freddie Mac's product is known as Extended. • Other: Any Interest Rate Buydown type not provided within the other enumerations. • Not Applicable: Interest Rate Buydown type is not applicable to the related mortgage loan. • Not Available: Interest Rate Buydown type is not available for disclosure. 	<p>MT = Moderate / Temporary</p> <p>SE = Significant / Extended</p> <p>O = Other</p> <p>7 = Not Applicable</p> <p>9 = Not Available</p>	String		2	The maximum interest rate reduction cannot exceed 3%, buydown period cannot exceed 3 years, and the interest rate increase cannot exceed 1% per year.	
XI - 347	Aggregate Investor Loan UPB with excess contribution percent	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security with excess contribution percent applied.		Numeric	14.2	17		
XI - 348	Percentage Investor Loan UPB with excess contribution percent	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security with excess contribution applied.		Numeric	3.2	6		
XI - 349	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9		
XI - 350	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6		
XI - 351	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17		
XI - 352	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6		

Fannie Mae Single-Family Disclosure Guide
Floater Reset Indices
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
FI-01	Index	The index code on which adjustments to the interest rate are based.		String				
FI-02	Index Value	The value of the index on which adjustments to the interest rate are based.		Numeric	2.5			
FI-03	Index Description	The description of the index in which adjustments to the interest rate are based.		String				
FI-04	Current Month Payment	The index will be used to calculate the current month payment.	Y = Yes N = No	String				

Fannie Mae Single-Family Disclosure Guide
Floater Reset Rates
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Notes	Calculation
FR-01	Trust Identifier	The unique alpha and/or numeric designation assigned to each deal.		String		50		
FR-02	Class Identifier	The unique alpha and/or numeric designation assigned to each sub-deal.		String		4		
FR-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9		
FR-04	Interest Rate	The rate at which interest is calculated to be paid on the security during the current accrual period.		Numeric	12.6	17	Round to the nearest 6th decimal place.	
FR-05	Interest Rate Effective Date	The date that the interest rate will be effective.		Date	MMDDCCYY	8		
FR-06	Next Payment Date	The date that the next payment is due.		Date	MMDDCCYY	8		

Fannie Mae Single-Family Disclosure Guide
Tax Publication Times
November 2024

Business Name	File Name ¹	Publication Date	Publication Timing	Process Cycle	Products	Archive Availability	Location
Single-Class Tax Type File	FNM_SCTAX_Q#YYYY.TYP within a zip file FNM_SCTAX_Q#YYYY_*.ZIP	Jan 30th, April 30th, July 30th and Oct 30th by 5:00 PM eastern time	Quarterly	Fixed length TXT format with ZIP extension Quarterly Files are Cumulative Year to Date	MBS UMBS MEGA SUPERS	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
Single-Class Tax Factor File	FNM_SCTAX_Q#YYYY.FAC within a zip file FNM_SCTAX_Q#YYYY_*.ZIP	Jan 30th, April 30th, July 30th and Oct 30th by 5:00 PM eastern time	Quarterly	Fixed length TXT format with ZIP extension Quarterly Files are Cumulative Year to Date	MBS UMBS MEGA SUPERS	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
Multiclass Tax Type File	FNM_MCTAX_Q#YYYY.TYP within a zip file FNM_MCTAX_Q#YYYY_*.ZIP	Jan 30th, April 30th, July 30th and Oct 30th by 5:00 PM eastern time	Quarterly	Fixed length TXT format with ZIP extension Quarterly Files are Cumulative Year to Date	REMIC SMBS Grantor Trust	Indefinitely	• SFTP • PoolTalk - Files & Reports Section
Multiclass Tax Factor File	FNM_MCTAX_Q#YYYY.FAC within a zip file FNM_MCTAX_Q#YYYY_*.ZIP	Jan 30th, April 30th, July 30th and Oct 30th by 5:00 PM eastern time	Quarterly	Fixed length TXT format with ZIP extension Quarterly Files are Cumulative Year to Date	REMIC SMBS Grantor Trust	Indefinitely	• SFTP • PoolTalk - Files & Reports Section

¹ If the date falls on a weekend or holiday, the file will be published on the next business day.

Fannie Mae Single-Family Disclosure Guide
Tax Factor Master
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	End Position	Notes	Calculation
1	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	9		
2	Filler	Not applicable		Space		1	10		
3	Security / Trust Identifier	The unique designation assigned to the security by the issuer.		String		8	18		
4	Filler	Not applicable		Space		1	19		
5	Class	An identifier assigned to the class when established into a multiclass re-securitization.		String		8	27	Applicable to Multiclass securities only	
6	Filler	Not applicable		Space		1	28		
7	Security Classification	The type of trust established for the security for tax reporting purposes.	WHMT REMIC	String		5	33	WHMT= Widely Held Fixed Investment Trust REMIC - Real Estate Mortgage Investment Conduit	
8	Filler	Not applicable		Space		1	34		
9	Class Issued With	The type of discount in which the class was issued.	DEMINIMUS PAR PREMIUM	String		13	47		
10	Filler	Not applicable		Space		1	48		
11	Interest Class	The tax status of interest earned on security.	Non Qualified Qualified	String		13	61		
12	Filler	Not applicable		Space		1	62		
13	Interest accrual method	The method for accruing interest. It is assumed month has 30 days and year consists of 360 days.	30/360	String		7	69		
14	Filler	Not applicable		Space		1	70		
15	Original Amount	The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.		String		12	82		
16	Filler	Not applicable		Space		1	83		
17	Issuer's Tax Identification (TIN)	The unique identifier received from the Internal Revenue Service and used to identify each security for tax purposes.		String	xx-xxxxxx	10	93		
18	Filler	Not applicable		Space		1	94		
19	Issuer Name	An alphanumeric designation used to identify the issuing entity.	Federal National Mortgage Association	String		50	144		
20	Filler	Not applicable		Space		1	145		

Fannie Mae Single-Family Disclosure Guide
Tax Factor Master
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	End Position	Notes	Calculation
21	Filler	Not applicable		String		50	195		
22	Filler	Not applicable		Space		1	1		
23	Issuer Address	The physical address for the issuing entity.	Midtown Center, 1100 15th St, NW, Washington, DC 20005	String		50	246		

Fannie Mae Single-Family Disclosure Guide
Tax Factor Detail
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	End Position	Notes	Calculation
1	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	9		
2	Filler	Not applicable		Space		1	10		
3	Days in Period	The number of days from the beginning of the accrual period to the end of the accrual period within the current tax year.		String		3	13		
4	Filler	Not applicable		Space		1	14		
5	Beginning of Accrual Period	The date of which the accrual period begins.		Date	YYYYMMDD	10	24	<ul style="list-style-type: none"> • Single-Class securities are left justified • Multiclass securities are right justified 	
6	Filler	Not applicable		Space		1	25		
7	End of Accrual Period	The date of which the accrual period ends.		Date	YYYYMMDD	10	35	<ul style="list-style-type: none"> • Single-Class securities are left justified • Multiclass securities are right justified 	
8	Filler	Not applicable		Space		1	36		
9	Payment Date	The date principal and interest is paid to the investor.		Date	YYYYMMDD	10	46	<ul style="list-style-type: none"> • Single-Class securities are left justified • Multiclass securities are right justified 	
10	Filler	Not applicable		Space		1	47		
11	Ending UPB Factor	The decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the Current Investor Security UPB amount.		Numeric	5.8	14	61		<ul style="list-style-type: none"> • (Current Investor Security UPB) / (Issuance Investor Security UPB) • Round to eighth decimal
12	Filler	Not applicable		Space		1	62		
13	QSI Factor	The qualified stated interest per \$1000 of Par.		Numeric	5.8	14	76		
14	Filler	Not applicable		Space		1	77		
15	OID Factor	The original issue discount per \$1000 of Par.		Numeric	5.8	14	91		
16	Filler	Not applicable		Space		1	92		

Fannie Mae Single-Family Disclosure Guide
Tax Factor Detail
November 2024

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	End Position	Notes	Calculation
17	Other Income / Expense Factor			Numeric	5.8	14	106	<ul style="list-style-type: none"> • Not applicable for Fannie Mae • Populated with zeroes 	
18	Filler	Not applicable		Space		1	107		
19	Section 212 Expense Factor	The Section 212 servicing expenses per \$1000 of par.		Numeric	5.8	14	121		
20	Filler	Not applicable		Space		1	122		
21	AIP at Beginning of Period Factor	The adjusted issue price at beginning of accrual period per \$1000 of par.		Numeric	5.8	14	136		
22	Filler	Not applicable		Space		1	137		
23	Market Discount Accrual Ratio	The fraction of unamortized market discount that should be accrued for the period per \$1000 of Par.		Numeric	5.8	14	151		
24	Filler	Not applicable		Space		1	152		
25	Real Estate Percentage	The real estate percentage of qualifying assets.		Numeric	4.2	7	159		

Fannie Mae Single-Family Disclosure Guide
Revision Log
November 2024

Item #	File/Attribute	Change	Publish Date	Version
Version 1.0 published – June 2019				
Version 1.1 published – August 2019				
Version 1.2 published – September 2019				
Version 1.3 published – November 2019				
Version 1.4 published – March 2020				
Version 1.5 published – May 2020				
Version 1.6 published – May 2020				
Version 1.7 published – September 2020				
Version 1.8 published – October 2020				
Version 1.9 published – January 2021				
Version 1.10 published – May 2021				
Version 1.11 published – Aug 2021				
Version 1.12 published – Sept. 2021				
Version 1.12 published – Feb 2022				
Version 1.13 published – March 2022				
Version 1.14 published – May 2022				
Version 1.15 published – August 2022				
Version 1.16 published – December 2022				
Version 1.17 published – January 2023				
Version 1.18 published - April 2023				
Version 1.19 published - June 2023				
Version 1.20 published - July 2023				
Version 1.21 published - August 2023				
Version 1.22 published - September 2023				
Version 1.23 published - December 2023				
Version 1.24 published - February 2024				
Version 1.25 published - March 2024				
Version 1.26 published - May 2024				
Version 1.27 published - September 2024				
Version 1.28 published - September 2024				
1	Security Supplemental File Updates for Water Certifications	New enumeration for Green Program Criteria (SS-548) and new Water Certification Stratification (Record Type 55)	November 2024	1.29
2	MBS Security File Update for Social Indicator	Social Indicator (S-95) populated for re-securitizations (Megas and Supers)	November 2024	1.29
3	MBS Security File and ESF Security File Label Updates	Update labels for two data attributes (MBS: S-41 and S-42 and ESF: X-42 and X-43). Attribute definitions in the ESF Security File were updated.	November 2024	1.29
4	Timing changes to MBS Intraday Issuance Files (MBS Intraday Issuance Loan Level File, MBS Intraday Security Issuance File, and MBS Intraday Security Supplemental Issuance File)	Updated intraday files timing and names to reflect 4 sweeps at 6:30am; 10:30am; 1:30pm; 3:30pm.	November 2024	1.29



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