



Disclosure Guide

Guide to PC, Giant,
and Tax Reporting
Disclosure Information

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INTRODUCTION

INTRODUCTION

This guide is designed to serve as a reference tool for investors in Freddie Mac mortgage securities and vendors of Freddie Mac mortgage-related securities information. It provides timing and frequency of disclosure data* transmitted directly from Freddie Mac or through independent information vendors, and file formats of the transmissions currently produced and distributed by Freddie Mac.

This guide also provides technical specifications that include definitions, enumerations, datatypes, formats and maximum attribute lengths for all disclosure files. The file layouts are the same for daily issuance and monthly files, with Loan level and Security level data in separate files.

This guide is divided into five distinct disclosure related sections:

- Loan Level
- Security Level
- Security Supplemental Level
- Exchange related files
- Tax

Disclosure files are created in text (txt) format with pipe delimiter separated values (except Tax related files).

Freddie Mac Offering Circulars and their related supplements provide more detailed information on Freddie Mac mortgage securities. For a copy of an Offering Circular, including the Offering Circular Supplement (“OCS”), please visit our website at www.freddiemac.com/mbs.

Investor Inquiry is available to answer any questions related to Freddie Mac’s mortgage securities. To contact Investor Inquiry call **(800) 336-3672** or send e-mail to

Investor_Inquiry@freddiemac.com. Freddie Mac's Mortgage Securities website (www.freddiemac.com/mbs) contains current and historical disclosure data for PCs and REMICs.

Freddie Mac provides mortgage-backed securities disclosure information through several disclosure vendors. For a listing of Freddie Mac’s disclosure vendors, please contact Investor Inquiry.

This guide will be updated as changes occur and posted to the Freddie Mac mortgage securities website.

This document is neither an offer to sell nor a solicitation of an offer to buy any of the securities described herein, which are offered only by the applicable offering circulars and related supplements, which incorporate Freddie Mac’s information statement and related supplements.

For the complete description and for important information, please see ‘Loan-Level Disclosure – Variable Names and Descriptions’ on the Freddie Mac website http://www.freddiemac.com/mbs/docs/fs_lld.pdf

The chart below classifies the prefixes found on each file.

	File 1	File 2
Prefix	A0, A1, A2, A3, A4, A5, A6, A7, A8, A9, B2, B3, B4, B5, B6, B7, B8, B9, C0, C1, C2, C3, C4, C5, C6, C7, C8, C9, D0, D1, D2, D3, D4, D5, D6, D7, D8, D9, E0, E1, E2, E3, E4, E5, E6, E7, E8, E9, F0, F1, F5, F6, F7, F8, F9, G0, G1, G2, G3, G6, G7, G8, G9, H0, H1, H2, H8, J0, J1, J2, J3, J4, J5, J6, J7, J8, J9, K0, K1, K2, K3, K8, K9, L0, L1, L2, L4, M2, M3, M4, M5, M6, M7, N2, N3, N4, N5, N6, N7, O2, O3, O5, O6, P0, P1, P2, P3, P4, P5, P6, Q0, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, S0, S1, S2, S3, S4, S5, S6, S7, S8, S9, T0, T1, T3, T4, T5, T6, U1, U2, U3, U4, U5, U6, U7, U8, U9, V6, V7, V8, Z4, Z5, Z6	12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 60, 61, 62, 63, 64, 65, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 84, 86, 87, 90, 92, 94, 96, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1U, 1V, 25, 26, 27, 28, 29, 2B, 53, 54, 55, 56, 57, 58, 59, 5A, 7A, 7B, 7C, 85, 88, 97, HA, HB, HC, HD, MA, MB, MC, MD, R0, R1, R2, W0, W1, W2, W3, WA, X0, X1, X9

For more information regarding PC Prefixes, please refer to our PC Prefix Guide:
<http://www.freddiemac.com/mbs/docs/goldcard.pdf>

TIMING AND FREQUENCY OF DATA

TIMING AND FREQUENCY OF DISCLOSURE

Transmission Name	Description	Filename/Format	Day of the Month Publicly Available
Daily Reports (Loan, Security and Supplemental Level)			
Daily Issuance Loan Level File 1	Initial loan-level information on newly issued pools	flYYMMDD.txt	Daily after 6:30 A.M.
Daily Issuance Loan Level File 2*	Initial loan-level information on newly issued pools	alYYMMDD.txt	
Daily Security Issuance File 1	Information on newly issued pools	dnYYMMDD.txt	
Daily Issuance Security File 2*	Information on newly issued pools	dbYYMMDD.txt	
Daily Security Supplemental Issuance File 1	Information on newly issued pools	wfYYMMDD.txt	
Daily Issuance Security Supplemental File 2*	Information on newly issued pools	wgYYMMDD.txt	
Monthly Reports (Loan, Security and Supplemental Level)			
Monthly Loan Level File 1	Updated monthly loan-level information	fuYYMMDD.txt	4 th Business Day after 4:30 P.M.
Monthly Loan Level File 2*	Updated monthly loan-level information	auYYMMDD.txt	
Monthly Security Factor File 1	Factors for pools	fdYYMMDD.txt	
Monthly Security Factor File 2*	Factors for pools	arYYMMDD.txt	
Monthly Security Supplemental File 1	Quartiles for pools & Assorted Data	fqYYMMDD.txt	
Monthly Security Supplemental File 2*	Quartiles for pools & Assorted Data	geYYMMDD.txt	
Exchange files			
Daily 45-Day to 55-Day Exchange Activity	Daily 45-Day to 55-Day Exchange Activity	edYYMMDD.txt	Daily after 6:30 A.M.
Cumulative 45-Day to 55-Day Exchange Activity	Cumulative 45-Day to 55-Day Exchange Activity	ecYYMMDD.txt	
Aggregate Level 1 Collateral Exchange Activity	Aggregate Level 1 Collateral Exchange Activity	eaYYMMDD.txt	
Tax Reports			
REMIC Original Issue Discount (OID) Tax Information	OID tax information for investors in REMICs		Quarterly
Mortgage Backed Securities Tax Disclosure File	Tax reporting data for investors in mortgage backed securities programs		Annually

Note: Freddie Mac mortgage security data files will not be disseminated on the holidays observed by the Federal Reserve System. Mortgage security data files will be disseminated on the next business day. The Disclosure Holiday Schedule is disclosed in the quick links section of the mortgage securities page (http://www.freddiemac.com/mbs/docs/holiday_schedule.pdf).

*Files specific to ARMS, reinstated, Modified, Multifamily and 75 Day Fixed rate mortgages.

LOAN LEVEL FILE

The daily loan level issuance file and the monthly loan level file contain the aligned loan level data attributes for Freddie Mac mortgage-backed securities. The layout of the files is identical. Original information is calculated based on information available when the security was issued and updated information in the monthly file is calculated based on the mortgage information reported to Freddie Mac by servicers. This data should be considered in conjunction with the information appearing in the applicable Freddie Mac Offering Circulars, as supplemented.

The loan level data file includes the attribute names, definitions, enumerations, data types, formats, max lengths and implementation notes. Freddie Mac will publish two daily loan level files each business day in the morning and two monthly loan level files. Most of Freddie Mac's securities will be in one file, but we will publish a second loan level file with the data for the following securities: Adjustable-Rate Mortgages (ARM), Modified, Reinstated, Multifamily & 75-Day payment delay Fixed-Rate PC securities. To find prefixes included in each file, please refer to the Introduction section.

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i>		Numeric	9.2	12	Privacy Masking: 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 of <= 6 months, 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.		Numeric	9.2	12	Privacy Masking: If loan age of <= 6 months, rounded to nearest thousand if > \$500
L-009	Amortization Type	The classification of the loan as having either a fixed- or an adjustable-interest rate.	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	If value <1 or >25, then the rate is considered not available
L-011	Issuance Interest Rate	The interest rate of the loan in effect at the time the security was issued.		Numeric	2.3	6	If value <1 or >25, then the rate is considered not available
L-012	Current Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	If value <1 or >25, then the rate is considered not available
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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.		Date	MMCCYY	6	
L-016	Maturity Date	The month and year that the final scheduled payment on the loan is due.		Date	MMCCYY	6	
L-017	Loan Term	The number of months in which regularly scheduled borrower payments are due.		Numeric		3	
L-018	Remaining Months to Maturity	The 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	
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	Value can be Negative

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-020	Loan-To-Value (LTV)	<p>The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property.</p> <p><i>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.</i></p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>	999 = Not Available	Numeric		3	If value <1 or >998, then the ratio is considered not available
L-021	Combined Loan-To-Value (CLTV)	<p>The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property.</p> <p><i>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.</i></p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>	999 = Not Available	Numeric		3	If value <1 or >998, then the ratio is considered not available

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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.	999 = Not Available	Numeric		3	If value <1 or >65, then the ratio is considered not available
L-023	Borrower Credit Score	The standardized credit score used to evaluate the borrower during the loan origination process. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>	9999 = Not Available	Numeric		4	If value <300 or >850, then the score is considered not available
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	If value <1 or >10, then the count is considered not available
L-028	First Time Home Buyer Indicator	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer.	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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-030	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1	
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	If value <1 or >4, then the count is considered not available
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	The origination channel used by the party that delivered the loan to the issuer. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>	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.	See Appendix A	String		2	
L-035	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.
L-036	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	If value <0 or >55, then the percentage is considered not available
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 Affairs 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	
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	
L-048	MBS/PC Margin	For adjustable-rate loans, the mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
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	
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
L-057	Life Ceiling Interest Rate	For adjustable-rate loans, the lifetime maximum interest rate.	77.777 - Not Applicable	Numeric	2.3	6	
L-058	Life Ceiling Net Interest Rate	For adjustable-rate loans, the maximum interest rate less servicing fees and guarantor fees.	77.777 - Not Applicable	Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-059	Life Floor Interest Rate	For adjustable-rate loans, the lifetime minimum interest rate.	77.777 - Not Applicable	Numeric	2.3	6	
L-060	Life Floor Net Interest Rate	For adjustable-rate loans, the minimum interest rate less servicing fees and guarantor fees.	77.777 - Not Applicable	Numeric	2.3	6	
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.	77.777 - Not Applicable	Numeric	2.3	6	
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.	77.777 - Not Applicable	Numeric	2.3	6	
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.	77.777 - Not Applicable	Numeric	2.3	6	
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.	77.777 - Not Applicable	Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-065	Modification Program	For reperforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.	A = Alternative C = Classic B = HAMP Backup H = HAMP O = Other R = Regular S = Standard T = Streamlined U = Underwater 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

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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><i>The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.</i></p>		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500
L-071	Current Deferred UPB	<p>For reperforming, modified fixed-rate and modified step-rate loans, the current non-interest bearing unpaid principal balance.</p> <p><i>The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.</i></p>		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > \$500
L-072	Loan Age As Of Modification	<p>For reperforming, modified fixed-rate and modified step-rate loans, the number of scheduled payments from the time the loan was originated up to and including the current reporting period.</p>		Numeric		3	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-073	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.	999 = Not Available	Numeric		3	If value <1 or >998, then the ratio is considered not available
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.	9999 = Not Available	Numeric		4	If value <300 or >850, then the score is considered not available
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-079	Number of Remaining Steps	For repricing, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2	
L-080	Next Step Rate	For repricing, 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 repricing, modified step-rate loans, the maximum interest rate in effect following the final scheduled interest rate adjustment date. <i>Once the interest rate reaches the Terminal Step Rate, it is fixed for the remaining term of the mortgage.</i>		Numeric	2.3	6	
L-082	Terminal Step Date	For repricing, 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 repricing, modified step-rate loans, the number of months between each interest rate adjustment.		Numeric		3	
L-084	Next Step Rate Adjustment Date	For repricing, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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.		Datwe	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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-094	Origination Loan-To-Value (LTV)	<p>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.</p> <p><i>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.</i></p>	999 = Not Available	Numeric		3	If value <1 or >998, then the ratio is considered not available
L-095	Origination Combined Loan-To-Value (CLTV)	<p>For reperforming, 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.</p> <p><i>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.</i></p>	999 = Not Available	Numeric		3	If value <1 or >998, then the ratio is considered not available

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-096	Origination Debt-To-Income Ratio	For reperforming, 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.	999 = Not Available	Numeric		3	If value <1 or >65, then the ratio is considered not available
L-097	Origination Credit Score	For reperforming, modified fixed-rate and modified step-rate loans, the standardized credit score used to evaluate the borrower during the loan origination process.	9999 = Not Available	Numeric		4	If value <300 or >850, then the score is considered not available
L-098	FILLER						
L-099	FILLER						
L-100	FILLER						
L-101	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 9 = Not Available	String		1	
L-102	Origination Occupancy Status	For reperforming, 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	
L-103	Origination Channel	For reperforming, 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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
L-104	Days Delinquent	For reperforming, modified and modified step-rate loans, 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+	Numeric		1	Applicable only for Fannie Mae issued securities in the monthly file.
L-105	Loan Performance History	<p>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.</p> <p><i>This string will contain 36 months of history for reperforming modified and modified step rate loans and 12 months for reinstated loans.</i></p>		String		150	<p>Applicable only for Fannie Mae issued securities for the at Issuance Disclosure</p> <p>The most recently reported activity is located in the last two spaces of the string.</p>

SECURITY LEVEL FILE

The daily security level issuance file contains security level data including the pool factor and weighted averages for the mortgage-backed securities, including single-class resecuritizations. Information is provided as of the time of the issuance of the security. The monthly security level file has the same file layout. The monthly security level file provides updated information calculated based on the mortgage information reported to Freddie Mac by servicers. The same mortgage information is used by Freddie Mac to calculate monthly pool factors for the month in which the disclosure is provided. This data should be considered in conjunction with the information appearing in the applicable Freddie Mac Offering Circulars, as supplemented. The security data file includes the attribute names, definitions, enumerations, data types, formats, max lengths and implementation notes. In the case of single-class resecuritizations, information on the collateral backing the single-class securitization will be provided. Freddie Mac will publish two daily security files each business day in the morning and two monthly security level files. Most of Freddie Mac's securities will be in one file, but we will publish a second security file with the data for the following securities: Adjustable-Rate Mortgages (ARM), Modified, Reinstated, Multifamily & 75-Day payment delay Fixed-Rate PC securities. To find prefixes included in each file, please refer to the Introduction section.

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	Rounded to the 8th decimal
S-06	Payment Delay Days	The indicator used to denote that 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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
S-07	Security Data Correction Indicator	The indicator used to denote the data correction status of the security based on the current reporting period.	Y = Yes N = No	String		1	Applicable Only for At Issuance Disclosure
S-08	Security Status Indicator	The indicator used to denote 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 used to denote whether the disclosure is preliminary and subject to change or final.	P = Preliminary F = Final 7 = Not Applicable	String		1	Applicable Only for At Issuance Disclosure
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
S-17	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	2.3	6	Rounded to the 3rd decimal
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	Rounded to the 3rd decimal
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	Rounded to the 3rd decimal
S-20	WA Net Accrual Interest Rate	For adjustable-rate loans, the weighted average Net Interest Rate less servicing fees and guarantor fees.		Numeric	2.3	6	Rounded to the 3rd decimal
S-21	WA Loan Term	The weighted average number of months in which regularly scheduled borrower payments are due.		Numeric		3	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
S-22	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	
S-23	WA Current Remaining Months to Maturity	<p>The weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.</p> <p><i>For fixed-rate loans, this value takes into account the impact of any curtailments.</i></p>		Numeric		3	
S-24	WA Loan Age	<p>The weighted average number of scheduled payments from the time the loans were originated or modified up to and including the current reporting period.</p>		Numeric		3	
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><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	Rounded to the 2nd decimal

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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><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	Rounded to the 2nd 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><i>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.</i></p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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><i>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.</i></p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	
S-29	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	
S-30	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	
S-31	FILLER						

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
S-32	FILLER						
S-33	Loan Count	The total number of loans in the security.		Numeric		9	
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. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		Numeric	3.2	6	Rounded to the 2nd decimal
S-35	Seller Name	The name of the entity that sold the loans to the issuer.		String		100	For Multi-lender/Majors, this field will reflect MULTIPLE For Giants/Megas, this field will reflect the value of SCR (Single-Class Resecuritization) Will not be updated after issuance, regardless of mergers/acquisitions.
S-36	Seller City	The city of the address of the entity that sold the loans to the issuer.		String		50	For Multilenders, Giants and Megas this 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 Multilenders, Giants and Megas this field will be blank.
S-38	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100	For Multi-lender/Majors, this field will reflect MULTIPLE For Giants/Megas, this field will reflect the value of SCR (Single-Class Resecuritization)

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
S-39	Servicer City	The city of the address of the entity that services the loan.		String		50	For Multilenders, Giants and Megas this field will be blank.
S-40	Servicer State	The state or territory of the address of the entity that services the loan.		String		2	For Multilenders, Giants and Megas this field will be blank.
S-41	Delinquent Loans Purchased (Prior Month UPB)	The aggregate prior period Investor Loan UPB of the loans that were purchased from the security due to delinquency status during the current reporting period.		Numeric	14.2	17	Applicable only for Monthly Disclosure
S-42	Delinquent Loans Purchased (Loan Count)	The number of loans that were purchased from the security due to delinquency status during the current reporting period.		Numeric		9	Applicable only for Monthly Disclosure
S-43	Eligible for Resecuritization	The indicator used to denote that 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	
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	String		1	
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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 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	Applicable only for Fannie Mae issued securities
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	
S-53	WA MBS PC Margin	For adjustable-rate loans, the weighted average mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
S-54	Interest Rate Adjustment Frequency	For adjustable-rate loans, the number of months, excluding any fixed-rate period, between scheduled rate changes.	555 = Mixed	Numeric		3	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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.	555 = Mixed	Numeric		3	
S-56	Payment Adjustment Frequency	For 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.	555 = Mixed	Numeric		3	
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	
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 9 = Not Available	String		1	
S-59	Negative Amortization Indicator	For adjustable-rate loans, the indicator used to denote that the loans in the security allow negative amortization.	Y = Yes N = No 9 = Not Available	String		1	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	Rounded to the 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.	77777777.77 = Not Applicable	Numeric	9.2	12	Rounded to the 8th decimal
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	
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	Applicable only for Fannie Mae issued securities
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	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
S-66	WA Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average lifetime maximum interest rate.		Numeric	2.3	6	Rounded to the 3rd decimal
S-67	WA Net Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	Rounded to the 3rd decimal
S-68	WA Life Interest Rate Floor	For adjustable-rate loans, the weighted average lifetime minimum interest rate.		Numeric	2.3	6	Rounded to the 3rd decimal
S-69	WA Net Life Interest Rate Floor	For adjustable-rate loans, the weighted average minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	Rounded to the 3rd decimal
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.	55.555 = Mixed	Numeric	2.3	6	
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.	55.555 = Mixed	Numeric	2.3	6	
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 change date after the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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 change date after the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	
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.	555 = Mixed	Numeric		3	
S-76	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	
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	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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.	55.555 = Mixed	Numeric	2.3	6	
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	
S-80	Average Origination Mortgage Loan Amount	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. <i>This value represents both the interest bearing and non-interest bearing amount.</i>		Numeric	9.2	12	
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	Rounded to the 3rd decimal

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
S-83	WA Origination Loan-To-Value (LTV)	<p>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.</p> <p><i>Property values reflect either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</i></p>		Numeric		3	

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
S-84	WA Origination Combined Loan-To-Value (CLTV)	<p>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.</p> <p><i>Property values reflect either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.</i></p>		Numeric		3	
S-85	WA Origination Debt-To-Income (DTI)	<p>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.</p>		Numeric		3	
S-86	WA Origination Credit Score	<p>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.</p>		Numeric		4	
S-87	FILLER						
S-88	FILLER						

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	
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	

SECURITY SUPPLEMENTAL FILE

The daily security supplemental file combines several different types of records within a single file. The file contains quartile information and the stratifications for the mortgage-backed securities, including single-class resecuritizations. Information is provided as of the time of the issuance of the security. The monthly security supplemental file has updated information calculated based on the mortgage information reported to Freddie Mac by servicers. This data should be considered in conjunction with the information appearing in the applicable Freddie Mac Offering Circulars, as supplemented.

The security supplemental data file includes the attribute names, definitions, enumerations, data types, formats, max lengths and implementation notes. In the case of single-class resecuritizations, information on the collateral backing the single-class securitization will be provided. Freddie Mac will publish two daily security supplemental files each business day in the morning and two monthly security supplemental files. Most of Freddie Mac's securities will be in one file, but we will publish a second security supplemental file with the data for the following securities: Adjustable-Rate Mortgages (ARM), Modified, Reinstated, Multifamily & 75-Day payment delay Fixed-Rate PC securities. To find prefixes included in each file, please refer to the Introduction section.

Record Type #	Security Supplemental File Record Type Description
1	Quartiles
2	Next Rate Change Date (NRCD)
3	Loan-To-Value (LTV) Not Available Stratification
4	Combined Loan-To-Value (CLTV) Not Available Stratification
5	Debt-To-Income (DTI) Not Available Stratification
6	Borrower Credit Score Not Available Stratification
7	Days Delinquent Stratification
8	Number of Borrowers Stratification
9	First Time Home Buyer Stratification
10	Loan Purpose Stratification
11	Occupancy Status Stratification
12	Number of Units Stratification
13	Property Type Stratification
14	Channel Stratification
15	Property State Stratification
16	Seller Name Stratification
17	Servicer Name Stratification
18	Mortgage Insurance Coverage Stratification
19	Mortgage Insurance Cancellation Indicator Stratification
20	Government Insured/Guarantee Stratification
21	Interest Only First Principal and Interest Payment Date Stratification
22	Not Paying Principal in First Distribution Stratification
23	Origination Year Stratification
24	Origination Channel Stratification
25	Non-Standard Loan Type Stratification
26	Modification Program Stratification
27	Modification Type Stratification
28	Modification Information Stratification
29	Number of Modifications Stratification

Record Type #	Security Supplemental File Record Type Description
30	Deferred Unpaid Principal Balance Stratification
31	Estimated Loan-to-Value (ELTV) Not Available Stratification
32	Updated Credit Score Not Available Stratification
33	Number of Remaining Steps Stratification
34	Number of Steps - At Modification Stratification
35	Next Step Rate Adjustment Date Stratification
36	Origination Loan-To-Value (LTV) Not Available Stratification
37	Origination Combined Loan-To-Value (CLTV) Not Available Stratification
38	Origination Debt-To-Income (DTI) Not Available Stratification
39	Origination Borrower Credit Score Not Available Stratification
40	Origination Loan Purpose Stratification
41	Origination Occupancy Status Stratification
42	Borrower Payment History Stratification
43	Collateral List

Quartiles							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	MIN 25% MED 75% MAX	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. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i>		Numeric	9.2	17	
SS-007	Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	

Quartiles							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	The number of months in which regularly scheduled borrower payments are due.		Numeric		3	
SS-010	Remaining Months to Maturity	The 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	
SS-011	Loan Age	The number of scheduled payments from the time the loan was originated and 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. <i>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.</i> <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		Numeric		3	

Quartiles							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-013	Combined Loan-To-Value (CLTV)	<p>The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property.</p> <p><i>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.</i></p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>		Numeric		3	
SS-014	Debt-To-Income (DTI)	<p>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.</p>		Numeric		3	
SS-015	Borrower Credit Score	<p>The 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	
SS-016	FILLER						
SS-017	FILLER						

Quartiles							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-020	Record Type = 2	Next Rate Change Date (NRCD)		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	
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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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 PC 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 PC 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 PC 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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Next Rate Change Date (NRCD)							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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 highest value minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	

Loan-To-Value (LTV) Not Available Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-055	Record Type = 3	Loan-To-Value (LTV) Not Available Stratification <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		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	
SS-062	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Combined Loan-To-Value (CLTV) Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-063	Record Type = 4	Combined Loan-To-Value (CLTV) Not Available Stratification <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		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	

Debt-To-Income (DTI) Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Borrower Credit Score Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-079	Record Type = 6	Borrower Credit Score Not Available Stratification		Numeric		4	
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		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		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		6	

Days Delinquent Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
SS-091	Days Delinquent	The number of days for which a mortgage loan has been reported delinquent.	1 = 30-59 2 = 60-89 3 = 90-119 4 = 120+	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	

Number of Borrowers Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	

First Time Home Buyer Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-105	Record Type = 9	First Time Home Buyer 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 Home Buyer	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	

Loan Purpose Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	

Occupancy Status Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	<p>The classification describing the property occupancy status at the time the loan was originated.</p> <p><i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i></p>	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	

Number of Units Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	

Property Type Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Channel Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-150	Record Type = 14	Channel Stratification		String		2	
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. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>	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	

Property State Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-159	Record Type = 15	Property State Stratification		String		2	
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.	See Appendix A	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	
SS-167	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Seller Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Seller Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	

Seller Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
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	
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	

Servicer Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-186	Record Type = 17	Servicer Name Stratification		String		2	
SS-187	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-188	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-189	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-190	Servicer Name	<p>The name of the entity that services the loan during the current reporting period.</p> <p><i>Will reflect servicer names contributing > 1% of the Current Investor Security UPB.</i></p>		String		100	
SS-191	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-192	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-193	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-194	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Servicer Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-195	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-196	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-197	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-198	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-199	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-200	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	

Servicer Name Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-201	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-202	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-203	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	

Mortgage Insurance Coverage Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-204	Record Type = 18	Mortgage Insurance Coverage Stratification		String		2	
SS-205	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-206	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-207	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-208	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 99 = Not Available	String		6	
SS-209	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-210	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-211	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-212	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Mortgage Insurance Cancellation Indicator Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-213	Record Type = 19	Mortgage Insurance Cancellation Indicator Stratification		String		2	
SS-214	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-215	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-216	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-217	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-218	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-219	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-220	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-221	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Government Insured/Guarantee Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-222	Record Type = 20	Government Insured/Guarantee Stratification		String		2	Applicable only to Government Insured/Guarantee loans.
SS-223	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-224	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-225	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-226	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	
SS-227	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-228	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-229	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-230	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Interest Only First Principal and Interest Payment Date Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-231	Record Type = 21	Interest Only First Principal and Interest Payment Date Stratification		String		2	
SS-232	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-233	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-234	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-235	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-236	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-237	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-238	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-239	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Interest Only First Principal and Interest Payment Date Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-240	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-241	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-242	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-243	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-244	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-245	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	

Interest Only First Principal and Interest Payment Date Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-246	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-247	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-248	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-249	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	

Not Paying Principal in First Distribution Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-250	Record Type = 22	Not Paying Principal in First Distribution Stratification. <i>Loans that will not receive a principal distribution in the first investor payment.</i>		String		2	Applicable only at issuance for Single - Class (no resecuritizations)
SS-251	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-252	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-253	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-254	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-255	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-256	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-257	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Year Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-258	Record Type = 23	Origination Year Stratification		String		2	
SS-259	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-260	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-261	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-262	Origination Year	The year of origination of the loans in the security.		Date	CCYY	4	
SS-263	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-264	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-265	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-266	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Channel Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-267	Record Type = 24	Origination Channel Stratification		String		2	
SS-268	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-269	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-270	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-271	Origination Channel	For reperforming, 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-272	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-273	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-274	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-275	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Non-Standard Loan Type Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-276	Record Type = 25	Non-Standard Loan Type Stratification		String		2	Applicable only at issuance for Single - Class (no resecuritizations). Totals may exceed 100%.
SS-277	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-278	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-279	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-280	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	
SS-281	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-282	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-283	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-284	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Modification Program Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-285	Record Type = 26	Modification Program Stratification		String		2	
SS-286	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-287	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-288	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-289	Modification Program	For reperforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.	A = Alternative C = Classic B = HAMP Backup H = HAMP O = Other R = Regular S = Standard T = Streamlined U = Underwater 9 = Not Available	String		1	
SS-290	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-291	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-292	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-293	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Modification Type Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-294	Record Type = 27	Modification Type Stratification		String		2	
SS-295	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-296	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-297	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-298	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-299	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-300	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-301	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-302	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Modification Information Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-303	Record Type = 28	Modification Information Stratification		String		2	
SS-304	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-305	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-306	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-307	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 Unpaid Principal Balance	Numeric	9.2	12	
SS-308	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-309	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-310	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-311	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Number of Modifications Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-312	Record Type = 29	Number of Modifications Stratification		String		2	
SS-313	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-314	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-315	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-316	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-317	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-318	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-319	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-320	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-321	Record Type = 30	Deferred Unpaid Principal Balance Stratification		String		2	Applicable only for modified pools.
SS-322	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-323	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-324	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-325	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	
SS-326	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-327	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.		Numeric	14.2	17	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-328	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-329	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-330	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-331	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	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-332	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-333	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. <i>For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.</i>		Numeric	9.2	12	
SS-334	Property State 1	The abbreviation denoting the location of the property securing the loan for the stratified attribute. <i>Ranked #1 by Investor Loan UPB</i>	See Appendix A	String		2	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-335	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-336	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	
SS-337	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-338	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-339	Property State 2	The abbreviation denoting the location of the property securing the loan for the stratified attribute. <i>Ranked #2 by Investor Loan UPB</i>	See Appendix A	String		2	
SS-340	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	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-341	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-342	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-343	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-344	Property State 3	The abbreviation denoting the location of the property securing the loan for the stratified attribute. <i>Ranked #3 by Investor Loan UPB</i>	See Appendix A	String		2	
SS-345	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-346	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	

Deferred Unpaid Principal Balance Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-347	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-348	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	

Estimated Loan-to-Value (ELTV) Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-349	Record Type = 31	Estimated Loan-to-Value (ELTV) Not Available Stratification		String		2	Applicable only if security characteristics apply.
SS-350	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-351	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-352	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-353	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-354	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-355	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric	3.2	6	
SS-356	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric		9	

Updated Credit Score Not Available Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-357	Record Type = 32	Updated Credit Score Not Available Stratification <i>For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		String		2	Applicable only if security characteristics apply.
SS-358	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-359	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-360	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-361	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-362	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-363	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-364	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Number of Remaining Steps Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-365	Record Type = 33	Number of Remaining Steps Stratification		String		2	Applicable only for Freddie Mac securities
SS-366	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-367	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-368	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-369	Number of Remaining Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2	
SS-370	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-371	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-372	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-373	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Number of Steps - At Modification Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-374	Record Type = 34	Number of Steps - At Modification Stratification		String		2	Applicable only for Freddie Mac securities
SS-375	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-376	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-377	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-378	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-379	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-380	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-381	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-382	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Next Step Rate Adjustment Date Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-383	Record Type = 35	Next Step Rate Adjustment Date Stratification		String		2	Applicable only for Freddie Mac securities
SS-384	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-385	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-386	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-387	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-388	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	

Next Step Rate Adjustment Date Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-389	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-390	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-391	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-392	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-393	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Loan-To-Value (LTV) Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-394	Record Type = 36	Origination Loan-To-Value (LTV) Not Available Stratification <i>For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		String		2	Applicable only if security characteristics apply.
SS-395	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-396	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-397	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-398	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-399	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-400	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-401	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Combined Loan-To-Value (CLTV) Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-402	Record Type = 37	Origination Combined Loan-To-Value (CLTV) Not Available Stratification <i>For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		String		2	Applicable only if security characteristics apply.
SS-403	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-404	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-405	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-406	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-407	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-408	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-409	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Debt-To-Income (DTI) Not Available Stratification

ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-410	Record Type = 38	Origination Debt-To-Income (DTI) Not Available Stratification <i>For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.</i>		String		2	Applicable only if security characteristics apply in
SS-411	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-412	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-413	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-414	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-415	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-416	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-417	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Borrower Credit Score Not Available Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-418	Record Type = 39	Origination Borrower Credit Score Not Available Stratification		String		2	Applicable only if security characteristics apply.
SS-419	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-420	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-421	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-422	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-423	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-424	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-425	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Loan Purpose Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-426	Record Type = 40	Origination Loan Purpose Stratification		String		2	
SS-427	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-428	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-429	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-430	Origination Loan Purpose Stratification	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	
SS-431	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-432	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-433	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-434	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Origination Occupancy Status Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-435	Record Type = 41	Origination Occupancy Status Stratification		String		2	
SS-436	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-437	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-438	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-439	Origination Occupancy Status	For reperforming, 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-440	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-441	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-442	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-443	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Borrower Payment History Stratification							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-444	Record Type = 42	Borrower Payment History Stratification		String		2	Applicable only for Freddie Mac securities
SS-445	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-446	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-447	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-448	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+	String		1	
SS-449	Borrower Payment Date	The month and year that the borrower was scheduled to remit payment.		Date	MMCCYY	6	
SS-450	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-451	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-452	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-453	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

Collateral List							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-454	Record Type = 43	Collateral List		String		2	Applicable only if security characteristics apply.
SS-455	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-456	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-457	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-458	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.		String		3	
SS-459	Collateral Security Identifier	For each security that directly underlies the resecuritization, the unique designation assigned to the security by the issuer.		String		6	
SS-460	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	

Collateral List							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-461	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-462	Collateral Issue Date	For each security that directly underlies the securitization, the date on which the security was issued.		Date	MMDDCCYY	8	
SS-463	Collateral Issuer	The issuer for each security that directly underlies the securitization.		String		3	
SS-464	Collateral Maturity Date	For each security that directly underlies the securitization, the month and year that the final scheduled payment on the loan is due at the time of securitization.		Date	MMCCYY	6	
SS-465	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-466	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	

Collateral List							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-467	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-468	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-469	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..		Numeric		3	
SS-470	Collateral WA Loan Age at Settlement	For each security that directly underlies the securitization, 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 securitization.		Numeric		3	
SS-471	Collateral Trust Identifier	For each security that directly underlies the securitization, an identifier assigned to the trust when established into a multiclass securitization.		String		50	Applicable only for underlying REMIC collateral

Collateral List							
ID	Attribute Name	Attribute Definition	Codes / Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-472	Collateral Class Identifier	For each security that directly underlies the securitization, an identifier assigned to the class when established into a multiclass securitization.		String		4	Applicable only for underlying REMIC collateral
SS-473	Group Identifier	An identifier assigned to the group when established into a multiclass securitization.		String		5	Applicable only for underlying REMIC collateral

EXCHANGE FILES

Daily 45-Day to 55-Day Exchange Activity

This disclosure contains one row for every exchange transaction where a Freddie Mac 45-day payment delay security exchanged directly to its corresponding 55-day "mirror" security on a given "As Of Date." The report includes the details about the corresponding pairs of 45 and 55-day securities and the amount of "Issuance Investor Security UPB" (Original Par) exchanged and settled as part of each transaction on the "As Of Date."

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
01	Freddie Mac 45 Day Security Identifier	The unique designation assigned to the 45-day security	Alpha-Numeric		6	
02	Freddie Mac 45 Day Security CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).	Alpha-Numeric		9	
03	Freddie Mac 55 Day Security Identifier	The unique designation assigned to the 55-day security. <i>This security is identical to the 45-day PCs except for payment delay, Security Identifier, CUSIP and, in most cases, issuance date. The 45-day PC is the collateral for the 55-day MBS.</i>	Alpha-Numeric		6	
04	Freddie Mac 55 Day Security CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP). <i>The 55-day MBS CUSIP was created as a "mirror" of the 45-day PC.</i>	Alpha-Numeric		9	
05	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	Truncated to whole number

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
06	Exchanged Issuance Investor Security UPB	<p>The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.</p> <p><i>Reflects the amount of the security that was exchanged directly to its' corresponding 55-day security.</i></p>	Numeric	14.2	17	Truncated to whole number
07	Cumulative Exchanged Issuance Investor Security UPB	<p>The total of the Issuance Investor Security UPB (Original Par) of the 45-day PC that has been exchanged directly to its corresponding 55-day MBS to date, including all current daily exchange activity.</p>	Numeric	14.2	17	Truncated to whole number
08	As of Date	<p>The Settlement Date through which the exchange activity is included in this disclosure.</p>	Date	MMDDCCYY	8	

Cumulative 45-Day to 55-Day Exchange Activity

This disclosure contains one row for every Freddie Mac 45-day payment delay security eligible to be exchanged, i.e. those that are not 100% committed to resecuritizations and for which a corresponding 55-day "mirror" security has been issued. The report includes one row per exchange eligible security, regardless of whether any exchange activity has occurred to date, with details about the corresponding pairs of 45 and 55-day securities and the amount of "Issuance Investor Security UPB" (Original Par) exchanged and settled to date.

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
01	Freddie Mac 45 Day Security Identifier	The unique designation assigned to the 45-day security	Alpha-Numeric		6	
02	Freddie Mac 45 Day Security CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).	Alpha-Numeric		9	
03	Freddie Mac 55 Day Security Identifier	The unique designation assigned to the 55-day security. <i>This security is identical to the 45-day PCs except for payment delay, Security Identifier, CUSIP and, in most cases, issuance date. The 45-day PC is the collateral for the 55-day MBS.</i>	Alpha-Numeric		6	
04	Freddie Mac 55 Day Security CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP). <i>The 55-day MBS CUSIP was created as a "mirror" of the 45-day PC.</i>	Alpha-Numeric		9	
05	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	Truncated to whole number

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
06	Cumulative Exchanged Issuance Investor Security UPB	The total of the Issuance Investor Security UPB (Original Par) of the 45-day PC that has been exchanged directly to its corresponding 55-day MBS to date, including all current daily exchange activity.	Numeric	14.2	17	Truncated to whole number
07	As of Date	The Settlement Date through which the exchange activity is included in this disclosure.	Date	MMDDCCYY	8	

Aggregate Level 1 Collateral Exchange Activity.

This disclosure contains one row for every Freddie Mac 45-day payment delay Level 1 PC, even if the PC is not eligible to be exchanged. Because exchanges can be done on Level 1 or at Level 2 securities, this report breaks out all exchanges on the basis of the lowest Level 1 PC collateral, i.e. allocating all exchanges of Giants back to their original Level 1 PC collateral and adding that to any exchanges from a Level 1 PC directly to its corresponding "mirror." This report can be used to determine the 45- day and 55-day supply and prepayments across any Legacy cohort.

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
01	Level 1 Security Identifier	The unique designation assigned to the 45-day Level 1 security.	Alpha-Numeric		6	
02	Level 1 Security CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).	Alpha-Numeric		9	
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	Truncated to whole number
04	Resecuritized Issuance Investor Security UPB	The total original issuance UPB (Original Par) of this PC that is committed to REMICs and/or Giants.	Numeric	14.2	17	Truncated to whole number
05	Cumulative Exchanged Issuance Investor Security UPB	The total of the Issuance Investor Security UPB (Original Par) of the 45-day PC that has been exchanged directly to its corresponding 55-day MBS to date, including all current daily exchange activity.	Numeric	14.2	17	Truncated to whole number
06	Issuance Investor Security UPB Remaining Eligible for Exchange	The amount of Issuance Investor Security UPB (Original Par) that has not yet been exchanged or resecuritized, and therefore remains eligible for exchange.	Numeric	14.2	17	Investor Security UPB at Issuance - Resecuritized Investors Security UPB at Issuance - Cumulative Exchanged Investor Security UPB at Issuance

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
07	Cumulative Issuance Investor Security UPB Exchanged through Resecuritizations	The amount of Issuance Investor Security UPB (Original Par) that is committed to a Giant, which has been exchanged to date as a result of the Giant's exchange activity (REMICs are not exchange eligible). This includes the current daily exchange settlement activity, if any.	Numeric	14.2	17	Truncated to whole number
08	Aggregate Exchanged Issuance Investor Security UPB	The total of the Issuance Investor Security UPB (Original Par) of the 45-day PC that has been exchanged directly to its corresponding 55-day MBS to date, including all current daily exchange activity.	Numeric	14.2	17	Cumulative Exchanged Investor Security UPB at Issuance + Cumulative Investor UPB at Issuance Exchanged through Resecuritizations
09	Aggregate Issuance Investor Security UPB Remaining Eligible for Exchange	The total Issuance Investor Security UPB (Original Par) that has not yet been exchanged either directly to its corresponding 55-day MBS or through the exchange of a Giant that has this PC as underlying collateral, and therefore remains eligible for exchange.	Numeric	14.2	17	Investor Security UPB at Issuance - Aggregate Exchanged Investor Security UPB at Issuance
10	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	Rounded to the 8th decimal position.
11	Security Factor Date	The month and year on which the corresponding factor is effective.	Date	MMCCYY	6	

ID	Attribute Name	Attribute Definition	Data Type	Format	Max Length	Implementation Notes
12	As of Date	The Settlement Date through which the exchange activity is included in this disclosure.	Date	MMDDCCYY	8	

REMIC ORIGINAL ISSUE DISCOUNT (OID) TAX INFORMATION FILE

This file contains selected data about Freddie Mac's REMIC program. **This data should be considered in conjunction with information appearing in the applicable Freddie Mac Offering Circulars, as supplemented.**

The file provides Original Issue Discount (OID) information, which may be used by investors to complete the necessary tax filings for their Freddie Mac REMIC investments.

The REMIC files will be available on a quarterly basis, on the 30th calendar day of the month following the end of the quarter (e.g. Q1 data is transmitted on the last business day in April). Files are cumulative on a year-to-date basis.

Record Length: 200

POS	LEN	DEC	Data Type	Description
1	6		Alpha-num	REMIC SERIES NUMBER – A six digit alphanumeric designation used to identify a Freddie Mac REMIC.
7	1			FILLER
8	6		Alpha-num	CLASS CODE – A six digit alphanumeric designation used to identify the collateral that backs a REMIC.
14	1			FILLER
15	10		Alpha-num	TAX IDENTIFICATION NUMBER - Unique identifier used to identify each REMIC series for tax purposes.
25	1			FILLER
26	9		Alpha-num	CUSIP NUMBER - Unique nine-character alphanumeric designation assigned to each REMIC.
35	1			FILLER
36	13	2	Numeric	CLASS ORIGINAL UPB -Original Principal amount of the class.
49	1			FILLER
50	1		Numeric	OID TYPE INDICATOR - (0=All OID, 1=Part OID, 2=Premium, 3=Part Premium, 4=No OID)
51	1			FILLER
52	1		Numeric	DEMINIMUS INDICATOR - (0=No, 1=Yes)
53	1			FILLER
54	8		Numeric - MM/DD/YY	ACCRUAL PERIOD START DATE - Date on which the accrual period begins.
62	1			FILLER
63	2		Numeric	NUMBER OF DAYS IN ACCRUAL PERIOD - Number of days from the beginning of the accrual period to the end of the accrual period, this is generally 30 days except in the case of new issues.
65	1			FILLER
66	13	2	Numeric	QUALIFIED PERIODIC INTEREST ACCRUAL - The amount of Qualified Periodic Interest earned for the above accrual period.
79	1			FILLER
80	17	8	Numeric	DAILY-QUALIFIED PERIODIC INTEREST ACCRUED PER \$1,000 OF FACE - The Qualified Periodic Interest earned in the accrual period in a daily factor form.
97	1			FILLER
98	17	8	Numeric	ORIGINAL ISSUE DISCOUNT ACCRUED - Represents the change in value at the beginning of the month taking into account the projected future cash flows and the current prepayments.
115	1			FILLER
116	17	8	Numeric	ORIGINAL ISSUE DISCOUNT ACCRUED ALLOCATED DAILY PER \$1,000 OF FACE - The Original Issue Discount Accrued in the accrual period in a daily factor form.
133	1			FILLER
134	15	8	Numeric	ADJUSTED ISSUE PRICE AT BEGINNING OF PERIOD PER \$1,000 OF FACE - The value of the security for tax purposes as of the beginning of the period.
149	1			FILLER
150	15	8	Numeric	MARKET DISCOUNT ACCRUAL RATIO - The rate used for amortizing the investor's market discount or premiums.
165	2			FILLER

POS	LEN	DEC	Data Type	Description
167	1		Numeric	<u>RANDOM LOT INDICATOR</u> - Indicates whether or not the REMIC bond is subject to Random Lot Procedures. (0=No, 1=Yes)
168	2			FILLER
170	15	8	Numeric	<u>REDEEMED BONDS OID DAILY AMOUNT</u> - Provides the Original Issue Discount Accrued in the period for Retail Random Lot bonds that have been terminated during the accrual period.
185	1			FILLER
186	15	8	Numeric	<u>DAILY 212 EXPENSE</u> - The allocated 212 Expenses to the regular REMIC interest applicable when a REMIC issues only one class of debt.

MORTGAGE BACKED SECURITIES TAX DISCLOSURE FILE

This file contains selected tax reporting data about Freddie Mac's securities programs other than REMICs. **This data should be considered in conjunction with information appearing in the applicable Freddie Mac Offering Circulars, as supplemented.**

The file provides disclosure of tax reporting amounts that are to be used to complete the necessary tax filings for holders of Freddie Mac issued non-REMIC securities.

The FM Tax Disclosure file will be available on an annual basis, on the 30th calendar day of the month following the end of the calendar year. For each security, the file contains a master record and monthly historical records that include tax reportable amounts for the prior tax year.

Master Record
Record Length: 228

POS	LEN	DEC	Data Type	Description
1	4		Integer	CALENDAR TAX YEAR – A four digit integer used to identify the Calendar Year to which the data relates.
5	1			FILLER
6	9		Alpha-num	CUSIP – Unique nine digit alphanumeric designation used to identify the security.
15	1			FILLER
16	6		Alpha-num	POOL OR SERIES NUMBER – A six digit alphanumeric designation used by Freddie Mac to identify the security or a set of associated securities.
22	3			FILLER
25	6		Alpha-num	CLASS – A six digit alphanumeric designation used by Freddie Mac to identify a particular security within a set of associated securities.
31	3			FILLER
34	15		Alpha-num	TAX REPORTING TYPE - (0=All OID, 1=Part OID, 2=Deminimis OID, 3=Premium, 4=No OID)
49	1			FILLER
50	10		Alpha-num	INTEREST ACCRUAL METHOD - (30/360, Act/360, Act/365, Act/Act)
60	1			FILLER
61	15	2	Numeric	ORIGINAL AMOUNT - The Principal or Notional amount of the security at origination
76	1			FILLER
77	10		Alpha-num	TAX IDENTIFICATION NUMBER - Unique identifier received from the Internal Revenue Service and used to identify each security for tax purposes.
87	1			FILLER
88	30		Alpha-num	ISSUER'S NAME 1 – An alphanumeric designation used to identify the issuing entity.
118	1			FILLER
119	40		Alpha-num	ISSUER'S NAME 2 – An alphanumeric designation used to identify the issuing entity.
159	1			FILLER
160	30		Alpha-num	ISSUER ADDRESS – Street number and name of the location of the Issuing entity.
190	1			FILLER
191	10		Alpha-num	ISSUER CITY – Geographic area of the location of the Issuing entity.
201	1			FILLER
202	10		Alpha-num	ISSUER STATE – Name for the geographic area of America of the location of the Issuing entity.
212	1			FILLER
213	10		Alpha-num	ISSUER ZIP CODE – Postal code for the location of the Issuing entity.
223	1			FILLER
224	5		Alpha-num	SECURITY CLASSIFICATION – (WHMT= widely held fixed investment trust), NWHMT = non-mortgage widely held fixed investment trust)

Detail Record
Record Length: 228

POS	LEN	DEC	Data Type	Description
1	2		Numeric	NUMBER OF DAYS IN ACCRUAL PERIOD - Number of days from the beginning of the accrual period to the end of the accrual period within the current tax year.
3	1			FILLER
4	8		Numeric - CCYYMMDD	ACCRUAL PERIOD START DATE - Date on which the accrual period begins.
12	1			FILLER
13	13	8	Numeric	ENDING UNPAID BALANCE FACTOR - The remaining principal or notional factor.
26	1			FILLER
27	13	8	Numeric	DAILY QSI ACCRUED - The Qualified Stated Interest accrued in the accrual period expressed in a daily factor form per \$1000 unit.
40	1			FILLER
41	13	2	Numeric	QUALIFIED STATED INTEREST ACCRUAL - The Daily QSI Accrued multiplied by the number of days in the accrual period and the original amount/1000.
54	1			FILLER
55	13	8	Numeric	DAILY OID ACCRUED - The Original Issue Discount accrued in the accrual period expressed in a daily factor form per \$1000 unit.
68	1			FILLER
69	13	2	Numeric	ORIGINAL ISSUE DISCOUNT ACCRUAL - The Daily OID Accrued multiplied by the number of days in the period and the original amount/1000.
82	1			FILLER
83	13	8	Numeric	DAILY OTHER INC/(EXP) ACCRUED - The Other Income or Expense accrued in the accrual period expressed in a daily factor form per \$1000 unit.
96	1			FILLER
97	13	8	Numeric	DAILY SECTION 212 EXPENSE ACCRUED - The Section 212 expenses accrued in the accrual period expressed in a daily factor form per \$1000 unit.
110	1			FILLER
111	18	8	Numeric	ADJUSTED ISSUE PRICE AT BEGINNING OF PERIOD PER \$1,000 OF FACE - The value of the security for tax purposes as of the beginning of the period.
129	1			FILLER
130	13	8	Numeric	MARKET DISCOUNT ACCRUAL RATIO - The rate used for amortizing the investor's market discount or premium.
143	86			FILLER

APPENDIX A

Property State Code Enumerations	
Enumeration	Enumeration Name
AK	Alaska
AL	Alabama
AR	Arkansas
AZ	Arizona
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
GA	Georgia
GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MD	Maryland
ME	Maine
MI	Michigan
MN	Minnesota
MO	Missouri
MS	Mississippi
MT	Montana
NC	North Carolina
ND	North Dakota
NE	Nebraska
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
OR	Oregon

Property State Code Enumerations	
Enumeration	Enumeration Name
PA	Pennsylvania
PR	Puerto Rico
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia
VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming

ARM Index Enumerations	
Enumeration	Enumeration Name
01	11THDIST_DLY_GUAR_RATE
02	CD_6MO_SEC_MRKT_MNTH_AVG
03	CD_6MO_WKLY
04	CMT_10YR_MNTH
05	CMT_10YR_WKLY_AVG
06	CMT_1YR_CUML_AVG_PRIOR12_MNTH_AVG
07	CMT_1YR_CUML_AVG_4WKS_WKLY_AVG
08	CMT_1YR_CUML_AVG_PREV12_MNTH_AVG
09	CMT_1YR_MNTH_AVG
10	CMT_1YR_WKLY_AVG
11	CMT_2YR_WKLY_AVG
12	CMT_3YR_MNTH_AVG
13	CMT_3YR_WKLY_AVG
14	CMT_5YR_WKLY_AVG
15	CMT_5YR_CUML_AVG_4WKS_WKLY_AVG
16	CMT_5YR_MNTH_AVG
17	CMT_6MO_WKLY_AVG
18	CMT_7YR_MNTH
19	CMT_BLEND_1YR_WKLY_AVG
20	COFI_12MO_11THDIST_CUML_AVG
21	COFI_1MO_11THDIST

ARM Index Enumerations	
Enumeration	Enumeration Name
22	COFI_1MO_7THDIST
23	COFI_1MO_NTL_MNTH_AVG
24	COFI_6MO_11THDIST
25	COFI_6MO_CA
26	COFI_FED_QRTY_AVG
27	COFI_FRE
28	COS_1MO_WELLSFARGO
29	FRM_CONV_30DAY_POSTED_YLD_AA
30	FRM_CONV_30DAY_POSTED_YLD_SA
31	FRM_CONV_60DAY_30YR_AA_DLY
32	FRM_CONV_60DAY_POSTED_YLD_AA
33	FRM_CONV_60DAY_POSTED_YLD_SA
34	LIBOR_1MO_BBA_DLY
35	LIBOR_1MO_WSJ_DLY
36	LIBOR_1MO_WSJ
37	LIBOR_1YR_WSJ
38	LIBOR_1YR_WSJ_DLY
39	LIBOR_3MO_BBA_DLY
40	LIBOR_6MO_BBA
41	LIBOR_6MO_BBA_DLY
42	LIBOR_6MO_WSJ
43	LIBOR_6MO_WSJ_DLY
44	LIBOR_6MO_WSJ_MNTH_AVG
45	MM_6MO_COMBANK_WKLY
46	NTL_AVG_CONT_PREV_OCC
47	NTL_AVG_EFFECTIVE_RATE
48	PRIME_WSJ_DLY
49	RNY_FRE_30YR_60DAY_DLY
50	TBILL_1YR_DISC_MNTH_AVG
51	TBILL_1YR_DISC_WKLY_AVG
52	TBILL_6MO_CUML_AVG_PREV26_WKLY_AVG
53	TBILL_6MO_DISC_CUML_AVG_PREV4_WKLY_AVG
54	TBILL_6MO_DISC_MNTH_AVG
55	TBILL_6MO_DISC_WKLY
56	TBILL_6MO_INV_CUML_AVG_PREV4_WKLY_AVG
57	TBILL_6MO_INV_WKLY
58	TBILL_6MO_SEC_WKLY_AVG

Enumeration Name Abbreviations	
Abbreviation	Meaning
AA	Actual/Actual
AVG	Average
BBA	British Bankers Association
CONT	Contract
CONV	Conventional
COS	Cost of Savings
CMT	Constant Maturity Treasury
CUML	Cumulative
DISC	Discount
DIST	District
DLY	Daily
FED	Federal
FRE	Freddie Mac
FRM	Fixed Rate Mortgage
INV	Investment
MM	Money Market
MNTH	Monthly
MO	Month
NTL	National
PREV26	Previous 26
PREV4	Previous 4
QRTY	Quarterly
RNY	Required Net Yield
SA	Scheduled/Scheduled
SEC	Secondary
WKLY	Weekly
WSJ	Wall Street Journal
YLD	Yield
YR	Year