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#### Introduction

The information provided in this document serves as a reference for understanding the Single Family Loan-Level Dataset (the "Dataset").

The Single Family Loan-Level Dataset includes loan-level origination and monthly loan performance data on a portion of the fully amortizing 30-year fixed-rate<sup>1</sup> Single Family mortgages<sup>2</sup> that Freddie Mac acquired with origination dates from 1999 to the Origination Cutoff Date (see Release Notes for details). Freddie Mac is making this Dataset available at the direction of its regulator, the Federal Housing Finance Agency (FHFA) as part of a larger effort to increase transparency and help investors build more accurate credit performance models in support of ongoing and future credit risk-sharing transactions highlighted in FHFA's 2013 Conservatorship Scorecard.<sup>3</sup>

This action builds on earlier efforts to improve data transparency, including Freddie Mac's decision to make its multifamily loan-level data available in June 2011 and its implementation of the Uniform Mortgage Data Program launched in 2010 with Fannie Mae and FHFA.

The Dataset is a "living" dataset, and as such may periodically be corrected or updated over time.

Freddie Mac cannot guarantee the Dataset is complete or error-free, and use of the Dataset is entirely at your own risk. Freddie Mac will have no liability to you or any third-party for or arising out of your use of the Dataset. The Dataset is provided on an "as is", as available basis, and Freddie Mac expressly disclaims all warranties with respect thereto, including, without limitation, warranties of non-infringement, merchantability and fitness for a particular purpose. Freddie Mac does not warrant that the data will be error-free, corrected or provided free of interruption. No oral or written information, advice or representations provided by Freddie Mac or any of its officers, directors, employees, agents, or subcontractors will create a warranty.

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<sup>&</sup>lt;sup>1</sup> The population of 30-year fixed-rate mortgages includes loans with original loan terms between 300 months (25-year) and 420 months (35-year), which the released dataset would treat as 30-year fixed.

<sup>&</sup>lt;sup>2</sup> The terms "mortgage(s)" and "loan(s)" are used interchangeably throughout the document.

<sup>&</sup>lt;sup>3</sup> The 2013 Conservatorship Scorecard can be found at http://www.fhfa.gov/webfiles/25023/2013EnterpriseScorecard3413.pdf



#### **Loan Selection Criteria & Data Overview**

Freddie Mac's Single Family Loan-Level Dataset contains loans meeting the following criteria:

- Mortgages originated from January 1, 1999, through the "Origination Cutoff Date", with monthly loan performance data through the "Performance Cutoff Date", that were sold to Freddie Mac or issued in Freddie Mac Participation Certificates (PCs). See Release Notes for Origination and Performance Cutoff Dates.
- Fully amortizing 30-year fixed-rate mortgages.
- Mortgages categorized as having verified or waived documentation (i.e. "full documentation")<sup>4</sup>.

The following types of mortgages were excluded from the Dataset:

- Adjustable Rate Mortgages (ARMs), Initial Interest, balloons, and any mortgages with step rates
- Relief Refinance Mortgages (including Home Affordable Refinance Program, or HARP)
- Government-insured mortgages, including Federal Housing Administration/Veterans Affairs (FHA/VA), Guaranteed Rural Housing (GRH), and HUD-Guaranteed Section 184 Native American mortgages
- Home Possible®/Home Possible Neighborhood Solution® Mortgages and other affordable mortgages (including lender branded affordable loan products)
- Mortgages delivered to Freddie Mac under alternate agreements
- Mortgages for which the documentation is not verified or not waived
- Mortgages associated with Mortgage Revenue Bonds purchased by Freddie Mac
- Mortgages delivered to Freddie Mac with credit enhancements other than primary mortgage insurance, with the exception of certain lender-negotiated credit enhancements
- Mortgages with original loan terms<sup>5</sup> of 420 months or more, and 300 months or less<sup>6</sup>

Loan performance information in the Dataset includes the monthly loan balance, delinquency status and certain information up to and including the earliest of the following termination events

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<sup>&</sup>lt;sup>4</sup> Generally, Freddie Mac requires that Sellers of mortgage loans document or verify loan application information about the Borrower's income, assets and employment. Sellers' documentation or verification can take several forms; for example, Sellers may require that a Borrower provide pay stubs or W-2 or 1099 forms to verify employment and income and depository and brokerage statements to verify assets. In some cases, because of the measured creditworthiness of the Borrower (for example, credit score) and loan attributes (for example, a refinance loan or low loan-to-value ratio), a Seller may require a reduced level of documentation or verification or may waive its general documentation or verification requirements. In other cases, pursuant to programs offered by lenders, Borrowers may elect to provide a reduced level of documentation or verification or may elect to provide no documentation or verification of some or all of this information in a loan application. Standards to qualify for reduced levels of documentation and for waivers of documentation based on creditworthiness, and what constitutes a material reduced level of documentation, may vary among Sellers. If Freddie Mac agrees with a Seller's decision to underwrite the Borrower using reduced documentation or no documentation, Freddie Mac will generally require that Sellers deliver a special code in connection with the delivery of such mortgage loans. Freddie Mac monitors the performance of such loans to determine whether they continue to perform at least as well as traditional full documentation loans.

<sup>&</sup>lt;sup>5</sup> Refer to the Data Dictionary for a description of the Original Loan Term calculation.

<sup>&</sup>lt;sup>6</sup> The Dataset includes loans which may have been seasoned prior to purchase by Freddie Mac, as well as certain types of mortgages, such as construction-to-perm loans (also known as "converted mortgages") and seller-owned modified mortgages, which are reported to Freddie Mac with the original note date of the mortgage and the converted or modified First Payment Date.



- Voluntary prepayments in full
- 180 days delinquency ("D180")
- Repurchases prior to D180
- Third-party sales<sup>7</sup> prior to D180
- Short sales prior to D180
- Deeds-in-lieu of foreclosure prior to D180
- Real estate owned (REO) acquisition prior to D180

Mortgages which were repurchased after a termination event but prior to the Performance Cutoff Date are identified in the Dataset. Mortgages that were modified from the original loan terms are also identified in the Dataset. Only approved and closed workouts (e.g., short sales, modifications, and deeds-in-lieu of foreclosure) prior to the Performance Cutoff Date are included in the Dataset. The rules for how these loans are identified and tracked in the Dataset are explained in more detail in the "How to Interpret the Data" section of this document.

Freddie Mac is the Master Servicer for all loans in the Dataset.

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<sup>&</sup>lt;sup>7</sup> In a third-party sale, a third-party other than Freddie Mac acquires an interest in the mortgaged property at the time of a foreclosure sale.



#### **Dataset Overview**

#### Single Family Loan-Level Dataset

For each calendar quarter, there is one file containing loan origination data and one file containing monthly performance data for each loan in the origination data file. There are cases when the loan would be in the origination file but not in the performance file. This would happen when the loan gets paid off in the month of origination or before first cycle begins. Refer to the *File Layout and Data Dictionary* section of this document for more information on what data is contained in each file.

#### Single Family Loan-Level Dataset Sample

Freddie Mac has created a smaller dataset for those who may not require, or have the capability, to download the full Dataset. The sample dataset is a simple random sample of 50,000 loans selected from each full vintage year and a proportionate number of loans from each partial vintage year of the full Single Family Loan-Level Dataset. Each vintage year has one origination data file and one corresponding monthly performance data file, containing the same loan-level data fields as those included in the full Dataset. Due to the size of the dataset, the data has been broken up and compressed as detailed below. The files are organized chronologically by year and quarter.

Dataset	File Name Format	Contents	File Type	Delimiter
Full	historical_data1_QnYYYY.zip	historical_data1_QnYYYY.txt	Origination Data	Pipe (" ")
		historical_data1_time_QnYYYY.txt	Monthly Performance Data	1 (1)
Sample	sample YYYY.zip	sample_orig_YYYY.txt	Origination Data	Pipe (" ")
,	. –	Sample_svcg_YYYY.txt	Monthly Performance Data	. (1)

A comparison of the full and sample datasets across key loan attributes and performance metrics by vintage year is available to assist with data validation at the following website: http://www.freddiemac.com/news/finance/pdf/summary\_statistics.pdf

#### File Layout & Data Dictionary

This section provides information regarding the layout of each origination and monthly performance data file, in addition to information about each of the data elements contained within each file type. Instructions for reading the data using two popular statistical packages are included in this User Guide, and can be found in the Appendix (A and B). The information is structured as follows:

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<sup>&</sup>lt;sup>8</sup> A sampling method by which a subset of a population is chosen, where each member of the subset has an equal probability of being chosen once from the larger population. A simple random sample is meant to be an unbiased representation of the larger population.



Field	Description
Column Position	Position of the Column in a Microsoft Excel Worksheet.
Formal Name and Definition	Name and definition of the loan-level data element.
Valid Values/Calculations	Allowable values for the specific data field and the calculations used (if applicable).
Type (Data Type)	<ul> <li>The type of data found in each column:</li> <li>Alpha – contains only letters</li> <li>Alpha-numeric – contains letters and numbers</li> <li>Numeric – contains only numbers</li> <li>Date – represents a specific date (Y = Year, M = Month) Example: YYYYMM (201207) = July 2012</li> </ul>
Length	Represents the maximum number of characters allowed for the data field.

### Origination Data File

ORIGINATION	DATA FILE			
COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH
1	CREDIT SCORE - A number, prepared by third parties, summarizing the borrower's creditworthiness, which may be indicative of the likelihood that the borrower will timely repay future obligations. Generally, the credit score disclosed is the score known at the time of acquisition and is the score used to originate the mortgage.	<ul> <li>301 - 850</li> <li>Space (3) = Unknown, if Credit Score is &lt; 301 or &gt; 850.</li> </ul>	Numeric	3
2	FIRST PAYMENT DATE - The date of the first scheduled mortgage payment due under the terms of the mortgage note.	• YYYYMM	Date	6
3	FIRST TIME HOMEBUYER FLAG - Indicates whether the Borrower, or one of a group of Borrowers, is an individual who (1) is purchasing the mortgaged property, (2) will reside in the mortgaged property as a primary residence and (3) had no ownership interest (sole or joint) in a residential property during the three-year period preceding the date of the purchase of the mortgaged property. With certain limited exceptions, a displaced homemaker or single parent may also be considered a First-Time Homebuyer if the individual had no ownership interest in a residential property during the preceding three-year period	<ul> <li>Y = Yes</li> <li>N = No</li> <li>Space (1) = Unknown or Not Applicable</li> </ul>	Alpha	1

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<sup>&</sup>lt;sup>9</sup> The header record row has been removed from all files in the Dataset and sample dataset; the position of columns in each file remains unchanged.



COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION		VALID VALUES/ CALCULATIONS	TYPE	LENGTH
	other than an ownership interest in the marital residence with a spouse.				
	Investment Properties, Second Homes and Refinance transactions are not eligible to be considered First-Time Homebuyer transactions. Therefore First Time Homebuyer does not apply and will be disclosed as "Not Applicable", which will be indicated by a blank space.				
4	MATURITY DATE - The month in which the final monthly payment on the mortgage is scheduled to be made as stated on the original mortgage note.	•	YYYYMM	Date	6
5	METROPOLITAN STATISTICAL AREA (MSA) OR METROPOLITAN DIVISION - This disclosure will be based on the designation of the Metropolitan Statistical Area or Metropolitan Division based on 2010 census (for Mar 2013 and May 2013 releases) and 2013 census (for Aug 2013 and Dec 2013 releases) data. Metropolitan Statistical Areas (MSAs) are defined by the United States Office of Management and Budget (OMB) and have at least one urbanized area with a population of 50,000 or more inhabitants. OMB refers to an MSA containing a single core with a population of 2.5 million or more, which may be comprised of groupings of counties, as a Metropolitan Division.  If an MSA applies to a mortgaged property, the applicable five-digit value is disclosed; however, if the mortgaged property also falls within a Metropolitan Division classification, the applicable five-digit value for the Metropolitan Division takes precedence and is disclosed instead.	•	Metropolitan Division or MSA Code. Space (5) = Indicates that the area in which the mortgaged property is located is a) neither an MSA nor a Metropolitan Division, or b) unknown.	Numeric	5
	Changes and/or updates in designations of MSAs or Metropolitan Division will not be reflected in the Single Family Historical Dataset.				
6	MORTGAGE INSURANCE PERCENTAGE (MI %) - The percentage of loss coverage on the loan, at the time of Freddie Mac's purchase of the mortgage loan that a mortgage insurer is providing to cover losses incurred as a result of a default on the loan. Only primary mortgage insurance that is purchased by the Borrower, lender or Freddie Mac is disclosed. Mortgage insurance that constitutes "credit enhancement" that is not required by Freddie Mac's Charter is not disclosed.  Amounts of mortgage insurance reported by Sellers that are less than 1% or greater than 55% will be disclosed as "Unknown," which will be disclosed by the proposed by the proposed of the	•	1% - 55% 000 = No MI Space(3) = Unknown	Numeric	3
7	indicated by three blank spaces. No MI will be indicated by three zeros.  NUMBER OF UNITS - Denotes whether the mortgage is a one-, two-, three-, or four-unit property.	•	1 = one-unit 2 = two-unit 3 = three-unit 4 = four-unit Space(1) = Unknown	Numeric	1
8	OCCUPANCY STATUS - Denotes whether the mortgage type is owner occupied, second home, or investment property.	•	O = Owner Occupied I = Investment Property S = Second Home Space (1) = Unknown	Alpha	1
9	ORIGINAL COMBINED LOAN-TO-VALUE (CLTV) – In the case of a purchase mortgage loan, the ratio is obtained by dividing the original mortgage loan amount on the note date plus any secondary mortgage loan amount disclosed by the Seller by the lesser of the mortgaged property's appraised value on the note date or its purchase price. In the case of a refinance mortgage loan, the ratio is obtained by dividing the original mortgage loan amount on the note date plus any secondary mortgage loan amount disclosed by the Seller by the mortgaged property's appraised value on the note date. If the secondary financing amount disclosed by the Seller includes a home equity line of credit, then the CLTV calculation reflects the disbursed amount at closing of the first lien mortgage loan, not the maximum loan amount available	•	0% - 200% Space (3) = Unknown	Full Dataset: Numeric Literal Decimal; Sample Dataset: Numeric	Full Dataset: 7 Sample Dataset: 3

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COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION		VALID VALUES/ CALCULATIONS	TYPE	LENGTH
	under the home equity line of credit. In the case of a seasoned mortgage loan, if the Seller cannot warrant that the value of the mortgaged property has not declined since the note date, Freddie Mac requires that the Seller must provide a new appraisal value, which is used in the CLTV calculation. In certain cases, where the Seller delivered a loan to Freddie Mac with a special code indicating additional secondary mortgage loan amounts, those amounts may have been included in the CLTV calculation.				
	If the calculated CLTV is < 0 or > 200, and the LTV is > 80 and <= 200 set the CLTV to the LTV. If the LTV is < 80 or > 200 or unknown, set the CLTV to 'unknown.' If the CLTV is < LTV, set the CLTV to 'unknown.' Unknown is indicated by three (3) blank spaces.				
	This disclosure is subject to the widely varying standards originators use to verify Borrowers' secondary mortgage loan amounts and will not be updated.				
10	ORIGINAL DEBT-TO-INCOME (DTI) RATIO - Disclosure of the debt to income ratio is based on (1) the sum of the borrower's monthly debt payments, including monthly housing expenses that incorporate the mortgage payment the borrower is making at the time of the delivery of the mortgage loan to Freddie Mac, divided by (2) the total monthly income used to underwrite the borrower as of the date of the origination of the mortgage loan.	•	0% <dti<=65% Space(3) &gt;65% Null = Unknown</dti<=65% 	Numeric	3
	Ratios greater than 65% are indicated by three (3) blank spaces and if unknown are indicated by a Null value.				
	This disclosure is subject to the widely varying standards originators use to verify Borrowers' assets and liabilities and will not be updated.				
11	ORIGINAL UPB - The UPB of the mortgage on the note date.	•	Amount will be rounded to the nearest \$1,000.	Numeric	12
12	ORIGINAL LOAN-TO-VALUE (LTV) - In the case of a purchase mortgage loan, the ratio obtained by dividing the original mortgage loan amount on the note date by the lesser of the mortgaged property's appraised value on the note date or its purchase price.	•	6% - 105% Space(3) = Unknown	Numeric	3
	In the case of a refinance mortgage loan, the ratio obtained by dividing the original mortgage loan amount on the note date and the mortgaged property's appraised value on the note date.				
	In the case of a seasoned mortgage loan, if the Seller cannot warrant that the value of the mortgaged property has not declined since the note date, Freddie Mac requires that the Seller must provide a new appraisal value, which is used in the LTV calculation.				
	Ratios below 6% or greater than 105% will be disclosed as "Unknown," indicated by three (3) blank spaces.				
13	ORIGINAL INTEREST RATE - The original note rate as indicated on the mortgage note.			Numeric Literal decimal	6
14	CHANNEL - Disclosure indicates whether a Broker or Correspondent, as those terms are defined below, originated or was involved in the origination of the mortgage loan. If a Third Party Origination is applicable, but the Seller does not specify Broker or Correspondent, the disclosure will indicate "TPO Not Specified". Similarly, if neither Third Party Origination nor Retail designations are available, the disclosure will indicate "TPO Not Specified." If a Broker, Correspondent or Third Party Origination disclosure is not applicable, the mortgage loan will be	•	R = Retail B = Broker C = Correspondent T = TPO Not Specified	Alpha	1

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COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH
	designated as Retail, as defined below.			
	Broker is a person or entity that specializes in loan originations, receiving a commission (from a Correspondent or other lender) to match Borrowers and lenders. The Broker performs some or most of the loan processing functions, such as taking loan applications, or ordering credit reports, appraisals and title reports. Typically, the Broker does not underwrite or service the mortgage loan and generally does not use its own funds for closing; however, if the Broker funded a mortgage loan on a lender's behalf, such a mortgage loan is considered a "Broker" third party origination mortgage loan. The mortgage loan is generally closed in the name of the lender who commissioned the Broker's services.			
	Correspondent is an entity that typically sells the Mortgages it originates to other lenders, which are not Affiliates of that entity, under a specific commitment or as part of an ongoing relationship. The Correspondent performs some, or all, of the loan processing functions, such as: taking the loan application; ordering credit reports, appraisals, and title reports; and verifying the Borrower's income and employment. The Correspondent may or may not have delegated underwriting and typically funds the mortgage loans at settlement. The mortgage loan is closed in the Correspondent's name and the Correspondent may or may not service the mortgage loan. The Correspondent may use a Broker to perform some of the processing functions or even to fund the loan on its behalf; under such circumstances, the mortgage loan, rather than a "Correspondent" third party origination mortgage loan.			
	Retail Mortgage is a mortgage loan that is originated, underwritten and funded by a lender or its Affiliates. The mortgage loan is closed in the name of the lender or its Affiliate and if it is sold to Freddie Mac, it is sold by the lender or its Affiliate that originated it. A mortgage loan that a Broker or Correspondent completely or partially originated, processed, underwrote, packaged, funded or closed is not considered a Retail mortgage loan.			
	For purposes of the definitions of Correspondent and Retail, "Affiliate" means any entity that is related to another party as a consequence of the entity, directly or indirectly, controlling the other party, being controlled by the other party, or being under common control with the other party.			
5	PREPAYMENT PENALTY MORTGAGE (PPM) FLAG - Denotes whether the mortgage is a PPM. A PPM is a mortgage with respect to which the borrower is, or at any time has been, obligated to pay a penalty in the event of certain repayments of principal.	<ul> <li>Y = PPM</li> <li>N = Not PPM</li> <li>Space (1) = Unknown</li> </ul>	Alpha	1
6	PRODUCT TYPE - Denotes the type of fixed-rate mortgage product.	FIX30 = fixed-rate 30- year	Alpha- numeric	5
7	PROPERTY STATE - A two-letter abbreviation indicating the state or territory within which the property securing the mortgage is located.	AL, TX, VA, etc.	Alpha	2
8	PROPERTY TYPE - Denotes whether the property type secured by the mortgage is a condominium, leasehold, planned unit development (PUD), cooperative share, manufactured home, or Single Family home.  If the Property Type is unknown, this will be indicated by two (2) blank spaces.	<ul> <li>CO = Condo</li> <li>LH = Leasehold</li> <li>PU = PUD</li> <li>MH = Manufactured Housing</li> <li>SF = 1-4 Fee Simple</li> <li>CP = Co-op</li> <li>Space (2) = Unknown</li> </ul>	Alpha	2
9	POSTAL CODE – The postal code for the location of the mortgaged	• ###00, where "###"	Numeric	5

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COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH
		represents the first three digits of the 5- digit postal code • Space(5)= Unknown		
נ	LOAN SEQUENCE NUMBER - Unique identifier assigned to each loan.	F1YYQnXXXXXX  F1 = product (Fixed 30 Years); YYQn = origination year and quarter; and, XXXXXX = randomly assigned digits	Alpha- numeric	12
1	LOAN PURPOSE - Indicates whether the mortgage loan is a Cash-out Refinance mortgage, No Cash-out Refinance mortgage, or a Purchase mortgage.  Generally, a Cash-out Refinance mortgage loan is a mortgage loan in which the use of the loan amount is not limited to specific purposes. A mortgage loan placed on a property previously owned free and clear by the Borrower is always considered a Cash-out Refinance mortgage loan. Generally, a No Cash-out Refinance mortgage loan is a mortgage loan in which the loan amount is limited to the following uses: Pay off the first mortgage, regardless of its age Pay off any junior liens secured by the mortgaged property, that were used in their entirety to acquire the subject property Pay related closing costs, financing costs and prepaid items, and Disburse cash out to the Borrower (or any other payee) not to exceed 2% of the new refinance mortgage loan or \$2,000, whichever is less.  As an exception to the above, for construction conversion mortgage loans and renovation mortgage loans, the amount of the interim construction financing secured by the mortgaged property is considered an amount used to pay off the first mortgage. Paying off unsecured liens or construction costs paid by the Borrower outside of the secured interim construction financing is considered cash out to the Borrower, if greater than \$2000 or 2% of loan amount.  This disclosure is subject to various special exceptions used by Sellers to determine whether a mortgage loan is a No Cash-out Refinance mortgage loan.	<ul> <li>P = Purchase</li> <li>C = Cash-out Refinance</li> <li>N = No Cash-out Refinance</li> </ul>	Alpha	1
2	ORIGINAL LOAN TERM - A calculation of the number of scheduled monthly payments of the mortgage based on the First Payment Date and Maturity Date.  Loans with original term of 420 or more, or 300 or less, are excluded from the Dataset.	Calculation: (Loan Maturity Date (MM/YY)     Loan First Payment Date (MM/YY) + 1)	Numeric	3
3	NUMBER OF BORROWERS - The number of Borrower(s) who are obligated to repay the mortgage note secured by the mortgaged property. Disclosure denotes only whether there is one borrower or more than one borrower associated with the mortgage note. This disclosure will not be updated to reflect any subsequent assumption of the mortgage note.	<ul> <li>01 = 1 borrower</li> <li>02 = &gt; 1 borrowers</li> <li>Space (2) = Unknown</li> </ul>	Numeric	2
4	SELLER NAME - The entity acting in its capacity as a seller of mortgages to Freddie Mac at the time of acquisition.  Seller Name will be disclosed for sellers with a total Original UPB representing 1% or more of the total Original UPB of all loans in the Dataset for a given calendar quarter. Otherwise, the Seller Name will	Name of the seller, or "Other Sellers"	Alpha- numeric	30

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ORIGINATION DATA FILE						
COLUMN POSITION <sup>9</sup>	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH		
25	<b>SERVICER NAME</b> - The entity acting in its capacity as the servicer of mortgages to Freddie Mac as of the last period for which loan activity is reported in the Dataset.	Name of the servicer, or "Other Servicers"	Alpha- numeric	30		
	Servicer Name will be disclosed for servicers with a total Original UPB representing 1% or more of the total Original UPB of all loans in the Dataset for a given calendar quarter. Otherwise, the Servicer Name will be set to "Other Servicers".					

## Monthly Performance Data File

COLUMN POSITION	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH
1	LOAN SEQUENCE NUMBER - Unique identifier assigned to each loan.	F1YYMMXXXXX  F1 = product (Fixed 30 Years); YYMM = origination year and month; and, XXXXXX = randomly assigned digits	Alpha- numeric	12
2	MONTHLY REPORTING PERIOD – The as-of month for loan information contained in the loan record.	YYYYMM	Date	6
3	CURRENT ACTUAL UPB - The Current Actual UPB reflects the mortgage ending balance as reported by the servicer for the corresponding monthly reporting period. Freddie Mac's loan-level PC disclosures reflect the UPB of the mortgage contributing to the current UPB of a PC pool. For fixed rate mortgages, this UPB is derived from the mortgage balance as reported by the servicer and includes any scheduled and unscheduled principal reductions applied to the mortgage. Therefore the Current Actual UPB reflected in this file may differ from the PC disclosure's Current Loan UPB for a given loan.  For mortgages with loan modifications, as indicated by "Y" in the Modification Flag field, the current actual unpaid principal balance may or may not include partial principal forbearance. If applicable, for loans with partial principal forbearance, the current actual unpaid principal balance equals the sum of interest bearing UPB (the amortizing principal balance of the mortgage) and the deferred UPB (the principal forbearance balance).  The Current Actual UPB will be null for the first six (6) months after the origination date.	Calculation: (interest bearing UPB) + (non-interest bearing UPB)	Numeric Literal decimal	12
4	CURRENT LOAN DELINQUENCY STATUS – A value corresponding to the number of days the borrower is delinquent, based on the due date of last paid installment ("DDLPI") reported by servicers to Freddie Mac, and is calculated under the Mortgage Bankers Association (MBA) method.	0 = Current, or less than 30 days past due     1 = 30-59 days delinquent     2 = 60 - 89 days delinquent     3 = 90 - 119 days delinquent     4 = 120 - 149 days delinquent	Alpha- numeric	1

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COLUMN POSITION	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH
		<ul> <li>5 = 150 - 179 days delinquent</li> <li>6 = 180+ days delinquent</li> <li>Space (1) = Unavailable</li> </ul>		
5	LOAN AGE - The number of months since the note origination month of the mortgage.  To ensure the age measurement commences with the first full month after the note origination month, subtract 1.	Calculation: ((Monthly Reporting Period) – Loan Origination Date (MM/YY)) – 1 month	Numeric	3
6	REMAINING MONTHS TO LEGAL MATURITY - The remaining number of months to the mortgage maturity date.  For mortgages with loan modifications, as indicated by "Y" in the Modification Flag field, the calculation uses the modified maturity date.	Calculation: (Maturity Date (MM/YY) – Monthly Reporting Period (MM/YY)	Numeric	3
7	REPURCHASE FLAG - Indicates loans that have been repurchased or made whole (not inclusive of pool-level repurchase settlements).  This field is only populated only at loan termination month.	<ul> <li>N = Not Repurchased</li> <li>Y = Repurchased</li> <li>Space (1) = Not Applicable</li> </ul>	Alpha	1
8	MODIFICATION FLAG – For mortgages with loan modifications, indicates that the loan has been modified.	<ul><li>Y = Yes</li><li>Space (1) = Not Modified</li></ul>	Alpha	1
9	ZERO BALANCE CODE - A code indicating the reason the loan's balance was reduced to zero.	<ul> <li>01 = Prepaid or Matured (Voluntary Payoff)</li> <li>02 = Third Party Sale Prior to D180</li> <li>03 = Short Sale or Short Payoff Prior to D180</li> <li>04 = Deed-in-Lieu of Foreclosure Prior to D180</li> <li>06 = Repurchases Prior to D180</li> <li>08 = REO acquisition Prior to D180</li> <li>97 = D180</li> <li>Space(2) = Not Applicable</li> </ul>	Numeric	2
10	ZERO BALANCE EFFECTIVE DATE - Date on which the loan balance was reduced to zero, due to one of the following scenarios (also reflected in "Zero Balance Code" field):  Prepaid or Matured – Date when loan was prepaid or matured. Third Party Sale – Date on which the Third Party Sale occurred as reported to Freddie Mac. Short Sale or Short Payoff – Date of the short sale settlement where the investor accepts a payoff that is less than the principal balance of a homeowner's mortgage in order to permit the homeowner to sell the home for the actual market value of the home (common in cases where the mortgage balance is greater than the value of the property).  Deed-in-Lieu – Date on which a title was transferred to the servicer	YYYYMM     Space(6) = Not Applicable	Date	6

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MONTHLY PERFORMANCE DATA FILE						
COLUMN POSITION	FORMAL NAME AND DEFINITION	VALID VALUES/ CALCULATIONS	TYPE	LENGTH		
	pursuant to a deed-in-lieu-of-foreclosure arrangement. Deed-in-lieu refers to the transfer of title from the borrower to the lender to satisfy the mortgage debt and avoid foreclosure.  Repurchased – Date on which mortgage has been repurchased from Freddie Mac.  REO acquisition – Date of REO acquisition.  D180 – Date when loan was reported as being 180 days delinquent					
11	CURRENT INTEREST RATE - Reflects the current interest rate on the mortgage note, taking into account any loan modifications.		Numeric Literal Decimal	8		

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#### **Interpreting the Data**

The Single Family Loan-Level Dataset is split in calendar quarters, beginning with the first quarter of 1999 and ending with the quarter as of the Origination Cutoff Date. For each calendar quarter, there is

- One "origination data" file containing loan-level origination information for all the loans originated during the quarter.
- One "monthly performance data" file for all of the respective loans originated during the quarter.

The monthly performance data file contains monthly loan-level credit performance information for each loan, starting from the time of loan acquisition by Freddie Mac until the earlier of a termination event or the Performance Cutoff Date, which is the last period of performance data available for any loan in the Dataset.

Termination events are described in more detail in the section below entitled "Zero Balance Codes". Note that the monthly performance data file does not contain monthly performance information for the timeframe between loan origination and loan acquisition by Freddie Mac.

Each loan in the origination data file is assigned a unique Loan Sequence Number. The monthly performance data file corresponding to the origination data file may contain multiple records with the same Loan Sequence Number, identifying the monthly performance records associated to a given loan. Note that Loan Sequence Numbers in the Dataset do not correspond to Loan Sequence Numbers found in existing Freddie Mac participation certificate (PC) disclosures.

#### Zero Balance Codes

Loans may become inactive in the Dataset for a variety of reasons, including voluntary payoffs or credit events, known as "termination events". Loans that become inactive in the Dataset due to a termination event on or before the Performance Cutoff Date will not be updated for activity in subsequent periods. Loans that were repurchased from Freddie Mac after a termination event are the exception to this practice, as discussed in the section below entitled "Repurchases". The reason for loan inactivity will be indicated by the value in the Zero Balance Code field, which is set during the Monthly Reporting Period corresponding to the Zero Balance Effective Date.

If applicable, the Zero Balance Code may be set at most once for a given loan in the Dataset. If more than one termination event occurs in the same reporting period for a given loan (e.g., a loan reaches D180 and experiences a short sale in the same month), the higher-ranking termination event is reported in the Dataset. The table below describes each of the termination events reported in the Dataset, the associated Zero Balance Code, and the applicable priority (i.e., 7 is high, 1 is low).

Reason for Loan Termination	Zero Balance Code	Priority
Prepaid (voluntary payoff) or matured	01	7
Third party sale prior to D180	02	1
Short sales prior to D180	03	3
Deed-in-lieu of foreclosure prior to D180	04	2
Repurchased prior to D180	06	5

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Reason for Loan Termination	Zero Balance Code	Priority
Real estate owned (REO) acquisition prior to D180	08	6
D180	97	4

#### Valid Values

Certain data elements for some loans in the Single Family Loan-Level Dataset will not be disclosed if the value is above or below reasonable thresholds, as determined by Freddie Mac and detailed in the table below:

Data Element	File Type	Valid Values	If Not Valid
Credit Score (FICO)	Origination	301 - 850	Space (3)
Mortgage Insurance Percentage (MI %)	Origination	1% - 55% or 0 (000)	Space (3)
Original Debt-to-Income Ratio (DTI)	Origination	0% <dti<= 65%<="" td=""><td>Space (3) or Null</td></dti<=>	Space (3) or Null
Original Loan-to-Value Ratio (LTV)	Origination	6% - 105%	Space (3)
Original Combined Loan-to-Value Ratio (CLTV)	Origination	0% - 200%	Space (3)

#### Monthly Reporting Period

For a given loan, each monthly reporting period in the monthly performance data file combines data elements from multiple reporting cycles and systems at Freddie Mac. As such, perceived data anomalies may be a result of timing mismatches between default/delinquency reporting cycles and investor reporting cycles. Examples of some commonly occurring anomalies in the data are included throughout this section. In all cases, the best information available at the time the Dataset is generated, subject to operational constraints, is used.

Other reasons why the data may be imperfect include, but are not limited to

- Seller/Servicer reporting errors: Freddie Mac relies on Seller/Servicer-reported data
- Data quality controls and systems have evolved and improved over time
- Administrative errors
- Loan delivery requirements (e.g., Form 11/13) have been updated to allow more granular reporting over time

The Monthly Reporting Period disclosed in the monthly performance data file includes the current month's accounting cycle activity for performing loans and the previous calendar month's default reporting activity for non-performing loans. It also includes termination events that occurred during the period, as indicated by the Zero Balance Effective Date, or modifications that became effective during the period, as indicated by the Modification Flag.

Freddie Mac's accounting cycle begins on the 16th of each month and ends on the 15th of the following month, for scheduled Principal and Interest (P&I) payments due on the first of the month. If the 15th falls on a weekend, or holiday, the accounting cycle ends on the previous business day. The last day of the accounting cycle is the Accounting Cutoff. Unscheduled principal curtailments and prepayments received by the Accounting Cutoff date are also included in the Monthly Reporting Period. The month

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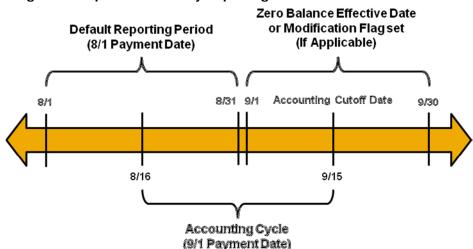


in which the Accounting Cutoff occurs will correspond to the Monthly Reporting Period in the Single Family Loan-Level Dataset.

Freddie Mac's default reporting cycle is based on loan activity between the first day of the month and the last day of the month, and is reported in the Single Family Loan-Level Dataset on a one-month lagged basis. Inclusion of mortgage loans in any of the Current Loan Delinquency Status categories is based on the due date of last paid installment ("DDLPI") as reported by servicers to Freddie Mac<sup>10</sup>, and is calculated under the Mortgage Bankers Association (MBA) method.<sup>11</sup>

Consider a current loan with a payment due on August 1: If the Servicer does not receive a payment by August 31, the loan would become one month (30 days) delinquent as reflected in the Servicer's September reporting transmission to Freddie Mac. The loan would be reflected as 30 days delinquent (delinquency status of "1") in the September Monthly Reporting Period in the Dataset.

As a result of combining data from multiple reporting cycles and systems within the monthly performance data, the payment date corresponding to delinquency status and the payment date corresponding to scheduled P&I payments are different, for the same Monthly Reporting Period in the Dataset. Diagram 1 illustrates the accounting cycle, default reporting, and termination event information that would be included in the Monthly Reporting Period of September in the Single Family Loan-Level Dataset:



**Diagram 1: September Monthly Reporting Period** 

Example 1 follows a loan in the Monthly Performance Data File as it transitions from current to delinquent status' and ends in a termination event. The loan is first reported as delinquent to Freddie Mac in June 2010 ("201006"), which means that the loan first became 30 days delinquent in May 2010

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<sup>&</sup>lt;sup>10</sup> Freddie Mac is not responsible for the DDLPI reported by servicers, makes no representations and warranties regarding such reported DDLPI, and may not have independently verified such reported DDLPI.

<sup>&</sup>lt;sup>11</sup> In this calculation, a loan increases its delinquency status if a monthly payment is not received by the end of the day immediately preceding the loan's next due date.



("201005"). The loan reaches 180 days delinquent in November 2010 ("201011") and is terminated in the Dataset.

**Example 1: Normal Delinquent Status Progression** 

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F108Q4000374	201004	79930.72	0	16	343					6.125
Data	F108Q4000374	201005	79844.71	0	17	342					6.125
	F108Q4000374	201006	79844.71	1	18	341					6.125
Monthly Performance	F108Q4000374	201007	79844.71	2	19	340					6.125
Perfc	F108Q4000374	201008	79844.71	3	20	339					6.125
ithly	F108Q4000374	201009	79844.71	4	21	338					6.125
Mor	F108Q4000374	201010	79844.71	5	22	337					6.125
	F108Q4000374	201011	0	6	23	336	N		97	201011	6.125

Example 2 follows a loan in the Dataset that does not complete the "normal" progression of delinquency status. This scenario could be due to delays in reporting delinquency status by the Servicer, bounced checks from the borrower, or mismatches in reporting cycles.

**Example 2: Irregular Delinquent Status Progression** 

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F100Q1000049	200411	121801.43	2	56	304					7.875
Data	F100Q1000049	200412	121672.66	2	57	303					7.875
	F100Q1000049	200501	121412.59	2	58	302					7.875
Monthly Performance	F100Q1000049	200502	121801.43	1	59	301					7.875
Perfc	F100Q1000049	200503	121672.66	5	60	300					7.875
thly	F100Q1000049	200504	120960.14	1	61	299					7.875
Мол	F100Q1000049	200505	120825.85	1	62	298					7.875
	F100Q1000049	200506	120690.68	1	63	297					7.875

Reporting gaps in the data, which could result from a Seller/Servicer failing to report loan information for a given month, or timing mismatches in the initial reporting of the loan to Freddie Mac, are possible. In Example 3, the servicing record does not include information from May 2000 ("200005"). This gap could be due to delays in loan settlement validation and reconciliation, or if the Servicer submitted settlement information late. Also, because this loan was aged less than six months from origination, the Current Actual Unpaid Principal Balance (UPB) field is empty (see Data Masking section below).

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**Example 3: Servicing Gaps** 

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
, g	F100Q1000183	200004		0	0	360					8.875
thly mand ta	F100Q1000183	200006		0	2	358					8.875
Monthly Performance Data	F100Q1000183	200007		0	3	357					8.875
ď	F100Q1000183	200008		0	4	356					8.875

#### Repurchases

The Single Family Loan-Level Dataset identifies those loans that have been repurchased from Freddie Mac in the monthly performance data files. Specifically, mortgages which were repurchased prior to 180-days delinquency, or repurchased after a termination event but before the Performance Cutoff Date, are identified in the Dataset. A loan flagged as "repurchased" may also include loans where Freddie Mac was compensated for losses incurred, or "made whole", as well as loans where a "repurchase equivalent", such as recourse or indemnification, was negotiated with a seller. Only those repurchase equivalents that were considered "collectible" at the time the Dataset was generated are included. Loans covered under pool-level repurchase settlements are not identified in the Dataset.

For loans that were repurchased prior to other termination events, the final monthly performance record of a given loan will contain "06" in the Zero Balance Code field and the date on which the repurchase occurred in the Zero Balance Effective Date field. The Repurchase Flag field will be empty. In some cases, the final monthly performance record of a given loan will contain "01" in the Zero Balance Code field and the date on which the repurchase occurred in the Zero Balance Effective Date field. The Repurchase Flag field will contain "Y". In Example 4, the loan was repurchased from Freddie Mac in April 2009.

Example 4: Repurchase prior to a termination event

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F106Q1111821	200809	332000.8	0	30	330					6.75
Data	F106Q1111821	200810	331652.23	0	31	329					6.75
	F106Q1111821	200811	331213.06	0	32	328					6.75
Monthly Performance	F106Q1111821	200812	330860.06	0	33	327					6.75
Perfc	F106Q1111821	200901	330860.06	0	34	326					6.75
ithly	F106Q1111821	200902	330148.1	0	35	325					6.75
Mor	F106Q1111821	200903	329789.11	0	36	324					6.75
	F106Q1111821	200904	0	0	37	323			6	200904	6.75

For loans that were repurchased after a termination event other than a prepayment, but prior to the Performance Cutoff Date, the final monthly performance record of a given loan will contain the Zero Balance Code (allowable values are 02, 03, 04, 08, and 97) and the Zero Balance Effective Date, as

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well as "Y" in the Repurchase Flag field. In Example 5, the loan became D180 in March 2005 and was later repurchased from Freddie Mac.

Example 5: Repurchase after a termination event

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F103Q1325362	200408	171580.65	0	16	343					5.625
)ata	F103Q1325362	200409	171379.83	1	17	342					5.625
Monthly Performance Data	F103Q1325362	200410	171379.83	1	18	341					5.625
orma	F103Q1325362	200411	171379.83	2	19	340					5.625
Perfc	F103Q1325362	200412	171379.83	3	20	339					5.625
thly	F103Q1325362	200501	171379.83	4	21	338					5.625
Mon	F103Q1325362	200502	171379.83	5	22	337					5.625
	F103Q1325362	200503	0	6	23	336	Υ		97	200503	5.625

#### **Modifications**

The origination data file will not reflect the modified loan terms of a given modified loan. In the monthly performance data file, all or a subset of the following fields may be updated in the monthly reporting period during which the modification became legally effective:

- Current Actual UPB
- Current Loan Delinquency Status
- Remaining Months to Legal Maturity
- Current Interest Rate

The Modification Flag will be set to "Y" in the period during which the modification is legally effective. Due to the various loan modification programs available to borrowers (Standard<sup>12</sup>, HAMP<sup>13</sup>, etc.), a loan could have been modified more than once. In these cases, the modification flag will be set to "Y" in more than one monthly reporting period, and some or all of the fields above could be updated each time a modification becomes legally effective. Approved modifications, but not yet closed as of the Performance Cutoff Date, are not included in the Dataset.

Typically, the most recent accounting cycle data<sup>14</sup> will be updated to reflect the modified terms during the monthly reporting period the modification becomes legally effective. In Example 6, the loan

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<sup>&</sup>lt;sup>12</sup> For more information about Freddie Mac's Standard Modifications, please visit the following website: http://www.freddiemac.com/Single Family/service/docs/standard\_mod\_service\_fact\_sheet.pdf

<sup>&</sup>lt;sup>13</sup> For more information about the Home Affordable Modification Program, please visit the following website: http://www.freddiemac.com/service/factsheets/pdf/mha\_modification.pdf

<sup>&</sup>lt;sup>14</sup> For more information on accounting cycles, refer to the Monthly Reporting Period section on Page 17.



modification is effective in August 2002, and the Current Interest Rate, Remaining Months to Legal Maturity and Current Actual UPB are updated in the same monthly reporting period. The Current Loan Delinquency Status is updated in the subsequent period.

**Example 6: Normal Modification Reporting** 

Formal	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F101Q1173671	200205	233835.84	3	14	345					6.75
ly ince	F101Q1173671	200206	233403.91	2	15	344					6.75
Monthly Performance Data	F101Q1173671	200207	233403.91	3	16	343					6.75
M Perf	F101Q1173671	200208	241971.47	4	17	360		Υ			6.625
	F101Q1173671	200209	241757.98	0	18	359					6.625

However, delays in the reporting of workout information from the Servicer or caused by quality control processes at Freddie Mac may result in updates to accounting cycle data occurring after the modification effective date. In Example 7, below, the loan modification is effective in April 2003, but the Current Interest Rate, Current Actual UPB, and Current Loan Delinquency Status are updated in the subsequent Monthly Reporting Period.

**Example 7: Delayed Modification Reporting** 

Formal Name	Loan Sequence Number	Monthly Reporting Period	Current Actual UPB	Current Loan Delinquency Status	Loan Age	Months Remaining to Legal Maturity	Repurchase Flag	Modification Flag	Zero Balance Code	Zero Balance Effective Date	Current Interest Rate
	F101Q1210253	200301	78747.56	1	21	339					7.25
ly ince	F101Q1210253	200302	78747.56	2	22	338					7.25
Monthly Performance Data	F101Q1210253	200303	78677.59	3	23	337					7.25
M Perf	F101Q1210253	200304	78677.59	3	24	360		Υ			7.25
T	F101Q1210253	200305	83785.88	0	25	359					7

#### Data Masking

To protect borrower privacy, certain data elements are masked in the Dataset. The methodologies and the impacted fields can be found in the table below:

Masking Methodology	Fields Impacted
All dates will only include month and year	First Payment Date, Maturity Date, Zero Balance Effective Date
Origination loan amount will be rounded to the nearest \$1,000	Original UPB
Current unpaid loan balance will be NULL (empty) for first 6 months after loan origination	Current Actual UPB

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Masking Methodology	Fields Impacted
Within a given origination quarter, those Freddie Mac customers who sell or service mortgages representing less than 1% of the total origination UPB will be identified as "Other Sellers" or "Other Servicers."	Seller Name <sup>15</sup> , Servicer Name <sup>16</sup>
The last two digits of the zip code for each loan in the Dataset will be replaced with zeroes.	Postal Code

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<sup>&</sup>lt;sup>15</sup> The Seller Name will reflect the seller of the mortgage at the time of acquisition by Freddie Mac, and will not be updated to reflect mergers, acquisitions, or other changes after the loan was acquired by Freddie Mac.

<sup>&</sup>lt;sup>16</sup> The Servicer Name will reflect the name of the servicer of the loan on record with Freddie Mac as of the last month of reported activity for the loan in the Dataset, not taking into account any changes to the servicer's name after a termination event.



#### **Additional Information**

For additional information, please visit our Web site at Freddiemac.com in the Economic & Housing Research Data area: http://www.freddiemac.com/news/finance/sf\_loanlevel\_dataset.html.

For support with technical issues related to downloading the Single Family Loan-Level Dataset files, please send an email to **support@embs.com**.

For support with data questions related to the Single Family Loan-Level Dataset, please send an email to **SF\_Loan\_Level\_Data\_Inquiry@freddiemac.com**.

This document will be updated as the Single Family Loan-Level Dataset is modified and released accordingly.

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## **Appendix**

#### A. Dataset for SAS Users

Follow the steps below to import a given Single Family Loan Level Dataset file into the SAS application:

Step	Instructions
1	Copy all files to a specific directory
2	Assign a SAS macro variable out_dir pointing to the file location
3	Run the following code on each file, adjusting the file name (QnYYYY) accordingly:
	data origfile; infile "&indir./historical_data1_&qtr_prdtxt" dlm= ' ' MISSOVER DSD lrecl=32767 firstobs=1 ; input fico : 8. dt_first_pi : 8. flag_fthb : \$1. dt_matr : 8. cd_msa : 8. mi_pct : 8. cnt_units : 8. occpy_sts : \$1. cltv : 8. dti : 8. orig_upb : 8. ltv : 8. int_rt : 8. channel : \$1. ppmt_pnlty : \$1. ppmt_pnlty : \$1. ppmt_pnlty : \$5. st : \$2. prop_type : \$5. st : \$2. zipcode : \$5. id_loan : \$16. loan_purpose : \$5. orig_loan_term : 8. cnt_borr : \$2. seller_name : \$30. servicer_name : \$30. servicer_name : \$30.
	data svcgfile; infile "&indir./historical_data1_time_&qtr_prdtxt" dlm= ' ' MISSOVER DSD Irecl=32767 firstobs=1 ; input ID_loan : \$12. Period : 8. Act_endg_upb : 8. delq_sts : 8. loan_age : 8. mths_remng : 8. repch_flag : \$1. flag_mod : \$1. CD_Zero_BAL : \$3. Dt_zero_BAL : 8. New_Int_rt : 8.; run;

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#### B. Dataset for STATA Users

We suggest the following steps to import a given Single Family Loan Level Dataset file into STATA Ver. 12 application:

Step	Instructions
1	Copy all files to a specific directory
2	Read each file into STATA using the "insheet" command, adjusting for the file name (QnYYYY) accordingly:
	insheet using <data_filename>, delimiter(" ")</data_filename>
3	Save Data into STATA format (*.dta):
	Save <data_filename></data_filename>
4	If you have the need to pull the Origination and Performance data files into a single view:
	use <data_filename> joinby id_loan using <data_filename></data_filename></data_filename>

Note: The above-mentioned steps have been tested and suggested only for STATA Ver. 12. For a different version, please refer to STATA Release Notes at <a href="http://www.stata.com/features/">http://www.stata.com/features/</a>.

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