

**Conditional Prepayment Rate Model**  
**Fixed Rate 30-Year Loans, High LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 + NEGEQ.RLT102 +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3 + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX30.60.LTVH.keep2001, na.action = na.exclude, control
  = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q       | Max      |
|-----------|-----------|-----------|----------|----------|
| -65.62694 | -8.568253 | -1.481207 | 5.862683 | 82.17495 |

Coefficients:

|              | Value       | Std. Error    | t value    |
|--------------|-------------|---------------|------------|
| (Intercept)  | 4.47045281  | 0.01658673853 | 269.51970  |
| INT.RT       | -0.21453012 | 0.00035122974 | -610.79713 |
| R.Prime      | 2.06139454  | 0.00707950433 | 291.17781  |
| Yield.Diff   | 0.05494313  | 0.00035549824 | 154.55248  |
| FR30.PDiff   | 0.45929416  | 0.00074061536 | 620.15208  |
| FR30.NDiff   | 0.23069484  | 0.00043376466 | 531.84333  |
| Tbond.Vol    | 0.65326335  | 0.00173312747 | 376.92747  |
| NEGEQ.RGT102 | -0.19407704 | 0.00419760934 | -46.23514  |
| NEGEQ.RLT102 | -1.98890540 | 0.00628470966 | -316.46735 |
| CumDiff.100  | -5.19411534 | 0.01002124515 | -518.31038 |
| RHP          | 0.45748385  | 0.00106707982 | 428.72505  |
| ANN.HPA      | 0.99893395  | 0.00887865370 | 112.50962  |
| LTV.0        | 0.01779206  | 0.00008942970 | 198.95021  |
| LTV.AGE3     | -0.01021637 | 0.00004612091 | -221.51267 |
| PAY.INC.AGE4 | 0.01014488  | 0.00005609268 | 180.85917  |
| UER.L2       | -0.05651475 | 0.00025864379 | -218.50418 |
| AGE          | -0.01888361 | 0.00017827609 | -105.92341 |
| AGE.2        | -1.33121802 | 0.00458528224 | -290.32412 |
| SR           | -0.23690971 | 0.00145704127 | -162.59643 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 7877039 on 15769 degrees of freedom

Residual Deviance: 2297116 on 15751 degrees of freedom

Number of Fisher Scoring Iterations: 4

1 - RD/ND = 0.7084

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, High LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|              | Df | Deviance | Resid. Df | Resid. Dev |
|--------------|----|----------|-----------|------------|
| NULL         |    |          | 15769     | 7877039    |
| INT.RT       | 1  | 42447    | 15768     | 7834592    |
| R.Prime      | 1  | 1734322  | 15767     | 6100270    |
| Yield.Diff   | 1  | 823221   | 15766     | 5277049    |
| FR30.PDiff   | 1  | 439667   | 15765     | 4837382    |
| FR30.NDiff   | 1  | 513979   | 15764     | 4323403    |
| Tbond.Vol    | 1  | 339735   | 15763     | 3983668    |
| NEGEQ.RGT102 | 1  | 476      | 15762     | 3983192    |
| NEGEQ.RLT102 | 1  | 647184   | 15761     | 3336008    |
| CumDiff.100  | 1  | 509183   | 15760     | 2826825    |
| RHP          | 1  | 177978   | 15759     | 2648847    |
| ANN.HPA      | 1  | 23962    | 15758     | 2624885    |
| LTV.0        | 1  | 45439    | 15757     | 2579446    |
| LTV.AGE3     | 1  | 77382    | 15756     | 2502064    |
| PAY.INC.AGE4 | 1  | 41507    | 15755     | 2460558    |
| UER.L2       | 1  | 41418    | 15754     | 2419140    |
| AGE          | 1  | 15664    | 15753     | 2403477    |
| AGE.2        | 1  | 80122    | 15752     | 2323354    |
| SR           | 1  | 26238    | 15751     | 2297116    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, High LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX30.60.LTVH.keep2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime       | Yield.Diff    |
|-----------|--------------|--------------|---------------|---------------|
| Min:      | 0.000000     | 6.893200     | 6.233169e-001 | -1.8366667    |
| 1st Qu.:  | 390.625000   | 8.385925     | 8.175779e-001 | 0.5125000     |
| Mean:     | 879.073857   | 9.433012     | 9.544263e-001 | 1.1908663     |
| Median:   | 750.000000   | 9.040900     | 9.724427e-001 | 1.0941667     |
| 3rd Qu.:  | 1165.035014  | 10.034025    | 1.072902e+000 | 1.7525000     |
| Max:      | 5439.844761  | 15.791900    | 1.503058e+000 | 3.5325000     |
| Total N:  | 15770.000000 | 15770.000000 | 1.577000e+004 | 15770.0000000 |
| NA's :    | 0.000000     | 0.000000     | 0.000000e+000 | 0.0000000     |
| Std Dev.: | 694.296308   | 1.501848     | 1.569725e-001 | 1.1505986     |
| Skewness: | 1.666344     | 1.192960     | 5.906142e-002 | 0.1956823     |

  

|           | FR30.PDiff    | FR30.NDiff    | Tbond.Vol     | NEGEQ.RGT102  |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 0.0000000     | -9.0448000    | 0.1524845     | 0.000000e+000 |
| 1st Qu.:  | 0.0000000     | -0.8669375    | 0.2630704     | 0.000000e+000 |
| Mean:     | 0.9717344     | -0.9139420    | 0.4349966     | 6.638902e-002 |
| Median:   | 0.5689208     | 0.0000000     | 0.3903262     | 5.820000e-004 |
| 3rd Qu.:  | 1.6310083     | 0.0000000     | 0.5650282     | 8.221625e-002 |
| Max:      | 8.1291833     | 0.0000000     | 1.1849930     | 8.151540e-001 |
| Total N:  | 15770.0000000 | 15770.0000000 | 15770.0000000 | 1.577000e+004 |
| NA's :    | 0.0000000     | 0.0000000     | 0.0000000     | 0.000000e+000 |
| Std Dev.: | 1.1779833     | 1.8580185     | 0.2323168     | 1.216675e-001 |
| Skewness: | 1.4540318     | 2.4086679     | 1.2659690     | 2.462776e+000 |

  

|           | NEGEQ.RLT102  | CumDiff.100   | RHP           | ANN.HPA       |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 0.000000e+000 | 0.000000e+000 | 0.3851000     | 0.9151299     |
| 1st Qu.:  | 0.000000e+000 | 0.000000e+000 | 0.5752250     | 1.0243064     |
| Mean:     | 4.608767e-002 | 4.894202e-002 | 0.8081858     | 1.0435136     |
| Median:   | 0.000000e+000 | 1.353992e-002 | 0.8394000     | 1.0407911     |
| 3rd Qu.:  | 1.654600e-002 | 6.415323e-002 | 0.8780000     | 1.0553276     |
| Max:      | 9.357500e-001 | 8.868652e-001 | 1.6051000     | 1.2611700     |
| Total N:  | 1.577000e+004 | 1.577000e+004 | 15770.0000000 | 15770.0000000 |
| NA's :    | 0.000000e+000 | 0.000000e+000 | 0.0000000     | 0.0000000     |
| Std Dev.: | 1.147076e-001 | 8.215797e-002 | 0.2550865     | 0.0372752     |
| Skewness: | 3.409569e+000 | 3.122880e+000 | 0.5861891     | 1.1559358     |

  

|           | LTV.0         | LTV.AGE3      | PAY.INC.AGE4  | UER.L2        |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 96.243800     | 0.0000000     | 0.0000000     | 2.842400      |
| 1st Qu.:  | 96.986900     | 36.3800000    | 5.6497250     | 5.150275      |
| Mean:     | 99.151895     | 55.2253386    | 10.2898306    | 6.283251      |
| Median:   | 98.613700     | 60.6600000    | 11.0570000    | 6.086250      |
| 3rd Qu.:  | 99.194875     | 77.5800000    | 15.7239000    | 7.173675      |
| Max:      | 116.944200    | 127.5500000   | 30.9163000    | 12.882800     |
| Total N:  | 15770.0000000 | 15770.0000000 | 15770.0000000 | 15770.0000000 |
| NA's :    | 0.000000      | 0.0000000     | 0.0000000     | 0.0000000     |
| Std Dev.: | 3.349483      | 28.3761475    | 6.6084886     | 1.577985      |
| Skewness: | 2.318564      | 0.5081297     | 0.2289613     | 0.783291      |

|           | AGE           | AGE.2         | SR            |
|-----------|---------------|---------------|---------------|
| Min:      | 2.0000000     | 0.0000000     | 0.0000000     |
| 1st Qu.:  | 4.0000000     | 0.0000000     | 0.0000000     |
| Mean:     | 8.9913126     | 0.1004439     | 0.7476221     |
| Median:   | 7.0000000     | 0.0000000     | 1.0000000     |
| 3rd Qu.:  | 13.0000000    | 0.0000000     | 1.0000000     |
| Max:      | 27.0000000    | 1.0000000     | 1.0000000     |
| Total N:  | 15770.0000000 | 15770.0000000 | 15770.0000000 |
| NA's :    | 0.0000000     | 0.0000000     | 0.0000000     |
| Std Dev.: | 5.9524497     | 0.3006005     | 0.4343907     |
| Skewness: | 0.8782161     | 2.6587238     | 1.1402338     |

**Conditional Prepayment Rate Model**  
**Fixed Rate 30-Year Loans, Investor LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 + NEGEQ.RLT102 +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3 + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX30.60.LTVI.keep2001, na.action = na.exclude, control
  = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q      | Max      |
|-----------|-----------|-----------|---------|----------|
| -56.22939 | -11.61802 | -2.869047 | 7.44726 | 92.75566 |

Coefficients:

|              | Value        | Std. Error    | t value    |
|--------------|--------------|---------------|------------|
| (Intercept)  | 6.989595985  | 0.01960520557 | 356.51735  |
| INT.RT       | -0.163581629 | 0.00043896947 | -372.64922 |
| R.Prime      | 1.775816752  | 0.01103736879 | 160.89131  |
| Yield.Diff   | 0.079044737  | 0.00049117306 | 160.93052  |
| FR30.PDiff   | 0.465588774  | 0.00104620913 | 445.02457  |
| FR30.NDiff   | 0.290286884  | 0.00071390943 | 406.61584  |
| Tbond.Vol    | 0.619884299  | 0.00232284095 | 266.86472  |
| NEGEQ.RGT102 | -1.588843623 | 0.01131507283 | -140.41833 |
| NEGEQ.RLT102 | -8.185003925 | 0.03080082091 | -265.73980 |
| CumDiff.100  | -6.149960881 | 0.01534035543 | -400.90081 |
| RHP          | 0.290698882  | 0.00101435716 | 286.58434  |
| ANN.HPA      | 0.299009042  | 0.01004577995 | 29.76464   |
| LTV.0        | -0.008902730 | 0.00007267221 | -122.50529 |
| LTV.AGE3     | -0.001123987 | 0.00006716102 | -16.73570  |
| PAY.INC.AGE4 | 0.010168851  | 0.00006321697 | 160.85636  |
| UER.L2       | -0.059764923 | 0.00036139240 | -165.37404 |
| AGE          | 0.003302158  | 0.00028625250 | 11.53582   |
| AGE.2        | -0.568225348 | 0.00555539896 | -102.28345 |
| SR           | -0.333373614 | 0.00191082754 | -174.46557 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 5427044 on 7652 degrees of freedom

Residual Deviance: 1720297 on 7634 degrees of freedom

Number of Fisher Scoring Iterations: 4

1 - RD/ND = 0.6830

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Investor LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|              | Df | Deviance | Resid. Df | Resid. Dev |
|--------------|----|----------|-----------|------------|
| NULL         |    |          | 7652      | 5427044    |
| INT.RT       | 1  | 130263.0 | 7651      | 5296781    |
| R.Prime      | 1  | 866699.5 | 7650      | 4430081    |
| Yield.Diff   | 1  | 817468.6 | 7649      | 3612613    |
| FR30.PDiff   | 1  | 185892.3 | 7648      | 3426720    |
| FR30.NDiff   | 1  | 445759.8 | 7647      | 2980961    |
| Tbond.Vol    | 1  | 314650.3 | 7646      | 2666310    |
| NEGEQ.RGT102 | 1  | 4644.7   | 7645      | 2661665    |
| NEGEQ.RLT102 | 1  | 255930.6 | 7644      | 2405735    |
| CumDiff.100  | 1  | 326847.8 | 7643      | 2078887    |
| RHP          | 1  | 88759.6  | 7642      | 1990127    |
| ANN.HPA      | 1  | 3032.4   | 7641      | 1987095    |
| LTV.0        | 1  | 26312.3  | 7640      | 1960783    |
| LTV.AGE3     | 1  | 146232.5 | 7639      | 1814550    |
| PAY.INC.AGE4 | 1  | 32599.4  | 7638      | 1781951    |
| UER.L2       | 1  | 21613.1  | 7637      | 1760338    |
| AGE          | 1  | 4396.2   | 7636      | 1755942    |
| AGE.2        | 1  | 5528.0   | 7635      | 1750414    |
| SR           | 1  | 30116.2  | 7634      | 1720297    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Investor LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX30.60.LTVI.keep2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime      | Yield.Diff    |
|-----------|--------------|--------------|--------------|---------------|
| Min:      | 0.0000000    | 6.943400     | 0.6691442    | -1.83666667   |
| 1st Qu.:  | 330.578512   | 8.975100     | 0.9061493    | 0.51250000    |
| Mean:     | 979.003862   | 10.093259    | 0.9942164    | 1.35383402    |
| Median:   | 758.620690   | 9.745400     | 1.0143481    | 1.44750000    |
| 3rd Qu.:  | 1336.206897  | 10.919800    | 1.0988562    | 1.84250000    |
| Max:      | 5153.583618  | 15.910100    | 1.5421676    | 3.53250000    |
| Total N:  | 7653.0000000 | 7653.0000000 | 7653.0000000 | 7653.00000000 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.00000000    |
| Std Dev.: | 868.357685   | 1.627734     | 0.1493868    | 1.20204393    |
| Skewness: | 1.443356     | 0.811875     | 0.2460573    | 0.04569781    |

|           | FR30.PDiff   | FR30.NDiff   | Tbond.Vol    | NEGEQ.RGT102  |
|-----------|--------------|--------------|--------------|---------------|
| Min:      | 0.0000000    | -8.9655000   | 0.1524845    | 0.00000000    |
| 1st Qu.:  | 0.0000000    | -0.5111000   | 0.2630704    | 0.00000000    |
| Mean:     | 1.157337     | -0.7715029   | 0.4594955    | 0.02562577    |
| Median:   | 0.918175     | 0.0000000    | 0.4079095    | 0.00421500    |
| 3rd Qu.:  | 1.968575     | 0.0000000    | 0.5650282    | 0.02886700    |
| Max:      | 8.251483     | 0.0000000    | 1.1849930    | 0.53098800    |
| Total N:  | 7653.0000000 | 7653.0000000 | 7653.0000000 | 7653.00000000 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.00000000    |
| Std Dev.: | 1.229480     | 1.7145618    | 0.2421185    | 0.05247024    |
| Skewness: | 1.132366     | 2.6488961    | 1.2187518    | 4.00152475    |

|           | NEGEQ.RLT102  | CumDiff.100   | RHP           | ANN.HPA       |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 0.00000000    | 0.00000000    | 0.4911000     | 0.91697864    |
| 1st Qu.:  | 0.00000000    | 0.00000000    | 0.6240000     | 1.01837720    |
| Mean:     | 0.01261412    | 0.05034458    | 1.0422376     | 1.04302457    |
| Median:   | 0.00000000    | 0.01725833    | 0.8820000     | 1.03740015    |
| 3rd Qu.:  | 0.00436400    | 0.06977517    | 1.3309000     | 1.05728491    |
| Max:      | 0.50138200    | 0.77764400    | 2.1921000     | 1.25497968    |
| Total N:  | 7653.00000000 | 7653.00000000 | 7653.00000000 | 7653.00000000 |
| NA's :    | 0.00000000    | 0.00000000    | 0.0000000     | 0.00000000    |
| Std Dev.: | 0.04144785    | 0.07984288    | 0.3978442     | 0.04431292    |
| Skewness: | 6.10064376    | 3.13857956    | 0.4804363     | 1.18432173    |

|           | LTV.0         | LTV.AGE3      | PAY.INC.AGE4  | UER.L2        |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 69.2289000    | 0.0000000     | 0.0000000     | 2.9208000     |
| 1st Qu.:  | 83.4313000    | 39.9500000    | 0.0000000     | 5.3898000     |
| Mean:     | 87.4883104    | 52.2883915    | 11.0887607    | 6.4939618     |
| Median:   | 86.1040000    | 59.2100000    | 13.3879000    | 6.3802000     |
| 3rd Qu.:  | 93.6490000    | 71.9400000    | 16.9529000    | 7.3608000     |
| Max:      | 101.4088000   | 104.0700000   | 36.4946000    | 12.2888000    |
| Total N:  | 7653.00000000 | 7653.00000000 | 7653.00000000 | 7653.00000000 |
| NA's :    | 0.00000000    | 0.00000000    | 0.0000000     | 0.00000000    |
| Std Dev.: | 5.4679665     | 26.8680722    | 7.5422437     | 1.4692106     |
| Skewness: | 0.5117303     | 0.7928581     | 0.4327545     | 0.6052782     |

|           | AGE         | AGE.2       | SR          |
|-----------|-------------|-------------|-------------|
| Min:      | 2.000000    | 0.000000    | 0.000000    |
| 1st Qu.:  | 3.000000    | 0.000000    | 0.000000    |
| Mean:     | 6.749641    | 0.1428198   | 0.7148831   |
| Median:   | 6.000000    | 0.000000    | 1.000000    |
| 3rd Qu.:  | 9.000000    | 0.000000    | 1.000000    |
| Max:      | 26.000000   | 1.000000    | 1.000000    |
| Total N:  | 7653.000000 | 7653.000000 | 7653.000000 |
| NA's :    | 0.000000    | 0.000000    | 0.000000    |
| Std Dev.: | 4.201167    | 0.3499119   | 0.4514996   |
| Skewness: | 1.012682    | 2.0420774   | 0.9521125   |

**Conditional Prepayment Rate Model**  
**Fixed Rate 30-Year Loans, Low LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 + NEGEQ.RLT102 +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3 + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX30.60.LTVL.keep2001, na.action = na.exclude, control
  = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q       | Max      |
|-----------|-----------|-----------|----------|----------|
| -56.68367 | -10.32238 | -2.126395 | 6.998411 | 125.3753 |

Coefficients:

|              | Value          | Std. Error    | t value    |
|--------------|----------------|---------------|------------|
| (Intercept)  | 5.0074626692   | 0.01815220911 | 275.85968  |
| INT.RT       | -0.1033704020  | 0.00040072891 | -257.95594 |
| R.Prime      | 1.9442673330   | 0.01016736432 | 191.22629  |
| Yield.Diff   | 0.0916467862   | 0.00047164329 | 194.31377  |
| FR30.PDiff   | 0.4367989228   | 0.00093222314 | 468.55619  |
| FR30.NDiff   | 0.2598634310   | 0.00067395507 | 385.57976  |
| Tbond.Vol    | 0.4601949390   | 0.00217923578 | 211.17262  |
| NEGEQ.RGT102 | -1.7225576617  | 0.01648386855 | -104.49960 |
| NEGEQ.RLT102 | -13.8970371415 | 0.07878141229 | -176.39995 |
| CumDiff.100  | -7.3533243966  | 0.01334312127 | -551.09477 |
| RHP          | 0.3346944004   | 0.00103593570 | 323.08414  |
| ANN.HPA      | 0.7356882174   | 0.01009054870 | 72.90864   |
| LTV.0        | 0.0009355893   | 0.00007960100 | 11.75349   |
| LTV.AGE3     | -0.0015583612  | 0.00007244255 | -21.51168  |
| PAY.INC.AGE4 | 0.0050749874   | 0.00006858572 | 73.99481   |
| UER.L2       | -0.0473858195  | 0.00033317241 | -142.22612 |
| AGE          | 0.0193839746   | 0.00026368708 | 73.51128   |
| AGE.2        | -0.4742674403  | 0.00514259044 | -92.22345  |
| SR           | -0.3912770086  | 0.00171965861 | -227.53179 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 4633589 on 7262 degrees of freedom

Residual Deviance: 1377136 on 7244 degrees of freedom

Number of Fisher Scoring Iterations: 4

1 - RD/ND = 0.7028

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Low LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|              | Df | Deviance | Resid. Df | Resid. Dev |
|--------------|----|----------|-----------|------------|
| NULL         |    |          | 7262      | 4633589    |
| INT.RT       | 1  | 176409.9 | 7261      | 4457179    |
| R.Prime      | 1  | 378549.1 | 7260      | 4078630    |
| Yield.Diff   | 1  | 837951.9 | 7259      | 3240678    |
| FR30.PDiff   | 1  | 43651.3  | 7258      | 3197027    |
| FR30.NDiff   | 1  | 487536.7 | 7257      | 2709490    |
| Tbond.Vol    | 1  | 361221.9 | 7256      | 2348269    |
| NEGEQ.RGT102 | 1  | 7366.1   | 7255      | 2340903    |
| NEGEQ.RLT102 | 1  | 157722.9 | 7254      | 2183180    |
| CumDiff.100  | 1  | 505635.4 | 7253      | 1677544    |
| RHP          | 1  | 127003.8 | 7252      | 1550540    |
| ANN.HPA      | 1  | 10992.2  | 7251      | 1539548    |
| LTV.0        | 1  | 5.1      | 7250      | 1539543    |
| LTV.AGE3     | 1  | 63436.8  | 7249      | 1476106    |
| PAY.INC.AGE4 | 1  | 12057.4  | 7248      | 1464049    |
| UER.L2       | 1  | 14768.9  | 7247      | 1449280    |
| AGE          | 1  | 15953.5  | 7246      | 1433326    |
| AGE.2        | 1  | 4954.8   | 7245      | 1428372    |
| SR           | 1  | 51235.6  | 7244      | 1377136    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Low LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX30.60.LTVL.keep2001 \*\*\*

|           | CPR.10K.Adj | INT.RT      | R.Prime     | Yield.Diff  |
|-----------|-------------|-------------|-------------|-------------|
| Min:      | 0.000000    | 6.709800    | 0.65792592  | -1.836667   |
| 1st Qu.:  | 434.123112  | 9.090550    | 0.89639083  | 0.512500    |
| Mean:     | 1056.117140 | 10.2648745  | 0.99208796  | 1.328826    |
| Median:   | 839.160839  | 9.781100    | 1.00655849  | 1.284028    |
| 3rd Qu.:  | 1416.666667 | 11.771850   | 1.10135116  | 1.842500    |
| Max:      | 5000.000000 | 15.645500   | 1.66985731  | 3.532500    |
| Total N:  | 7263.000000 | 7263.000000 | 7263.000000 | 7263.000000 |
| NA's :    | 0.000000    | 0.000000    | 0.000000    | 0.000000    |
| Std Dev.: | 857.235856  | 1.7567769   | 0.15816627  | 1.177267    |
| Skewness: | 1.393319    | 0.7219094   | 0.07005548  | 0.046640    |

|           | FR30.PDiff  | FR30.NDiff  | Tbond.Vol   | NEGEQ.RGT102 |
|-----------|-------------|-------------|-------------|--------------|
| Min:      | 0.000000    | -9.083800   | 0.1524845   | 0.00000000   |
| 1st Qu.:  | 0.000000    | -0.5066125  | 0.2630704   | 0.00000000   |
| Mean:     | 1.319137    | -0.7800454  | 0.4619536   | 0.01284809   |
| Median:   | 1.075825    | 0.000000    | 0.4079095   | 0.00121900   |
| 3rd Qu.:  | 2.089858    | 0.000000    | 0.5650282   | 0.00939700   |
| Max:      | 8.481158    | 0.000000    | 1.1849930   | 0.37668800   |
| Total N:  | 7263.000000 | 7263.000000 | 7263.000000 | 7263.000000  |
| NA's :    | 0.000000    | 0.000000    | 0.000000    | 0.000000     |
| Std Dev.: | 1.418625    | 1.7301955   | 0.2415889   | 0.03473693   |
| Skewness: | 1.199876    | 2.6474016   | 1.2006918   | 5.14182960   |

|           | NEGEQ.RLT102  | CumDiff.100   | RHP           | ANN.HPA       |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 0.000000e+000 | 0.00000000    | 0.4515000     | 0.91251821    |
| 1st Qu.:  | 0.000000e+000 | 0.00000000    | 0.6291500     | 1.01972393    |
| Mean:     | 3.649497e-003 | 0.06581104    | 1.0326275     | 1.04132713    |
| Median:   | 0.000000e+000 | 0.02252208    | 0.8795000     | 1.03795976    |
| 3rd Qu.:  | 1.006000e-003 | 0.08979954    | 1.3699000     | 1.05552038    |
| Max:      | 3.311750e-001 | 1.15013425    | 2.1799000     | 1.26525105    |
| Total N:  | 7.263000e+003 | 7263.00000000 | 7263.00000000 | 7263.00000000 |
| NA's :    | 0.000000e+000 | 0.00000000    | 0.00000000    | 0.00000000    |
| Std Dev.: | 1.655878e-002 | 0.10602331    | 0.3778389     | 0.04028389    |
| Skewness: | 1.072297e+001 | 3.12703678    | 0.3757240     | 1.04754527    |

|           | LTV.0        | LTV.AGE3     | PAY.INC.AGE4 | UER.L2       |
|-----------|--------------|--------------|--------------|--------------|
| Min:      | 57.6104000   | 0.0000000    | 0.0000000    | 2.8918000    |
| 1st Qu.:  | 70.4682500   | 35.1500000   | 7.569200     | 5.3709500    |
| Mean:     | 74.4688233   | 45.5222264   | 11.356710    | 6.4666462    |
| Median:   | 72.3286000   | 49.7200000   | 13.169600    | 6.3233000    |
| 3rd Qu.:  | 81.5698500   | 61.1750000   | 16.619450    | 7.2902500    |
| Max:      | 82.1147000   | 92.6100000   | 28.670600    | 12.8199000   |
| Total N:  | 7263.0000000 | 7263.0000000 | 7263.0000000 | 7263.0000000 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.0000000    |
| Std Dev.: | 5.4910768    | 21.6388407   | 6.925193     | 1.4912801    |
| Skewness: | 0.3095594    | 0.7804756    | 0.581607     | 0.7565929    |

|           | AGE           | AGE.2         | SR            |
|-----------|---------------|---------------|---------------|
| Min:      | 2.00000000    | 0.00000000    | 0.00000000    |
| 1st Qu.:  | 4.00000000    | 0.00000000    | 0.00000000    |
| Mean:     | 7.6288035     | 0.1149663     | 0.7086603     |
| Median:   | 7.00000000    | 0.00000000    | 1.00000000    |
| 3rd Qu.:  | 11.00000000   | 0.00000000    | 1.00000000    |
| Max:      | 25.00000000   | 1.00000000    | 1.00000000    |
| Total N:  | 7263.00000000 | 7263.00000000 | 7263.00000000 |
| NA's :    | 0.00000000    | 0.00000000    | 0.00000000    |
| Std Dev.: | 4.6115008     | 0.3190032     | 0.4544109     |
| Skewness: | 0.8103014     | 2.4146454     | 0.9186302     |

**Conditional Prepayment Rate Model**  
**Fixed Rate 30-Year Loans, Mid LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
      FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 + NEGEQ.RLT102 +
      CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3 + PAY.INC.AGE4 +
      UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
      = Rev.FX30.60.LTVM.keep2001, na.action = na.exclude, control
      = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q      | Max      |
|-----------|-----------|-----------|---------|----------|
| -67.19876 | -9.746224 | -1.796802 | 6.67749 | 96.12673 |

Coefficients:

|              | Value        | Std. Error    | t value    |
|--------------|--------------|---------------|------------|
| (Intercept)  | 5.764274880  | 0.01365075705 | 422.26778  |
| INT.RT       | -0.174369498 | 0.00025599558 | -681.14262 |
| R.Prime      | 1.398658922  | 0.00581888434 | 240.36548  |
| Yield.Diff   | 0.066352080  | 0.00027728468 | 239.29227  |
| FR30.PDiff   | 0.504588158  | 0.00058314487 | 865.28783  |
| FR30.NDiff   | 0.284560472  | 0.00037105641 | 766.89276  |
| Tbond.Vol    | 0.651212578  | 0.00132567388 | 491.23136  |
| NEGEQ.RGT102 | -0.528967343 | 0.00453732033 | -116.58144 |
| NEGEQ.RLT102 | -5.116428996 | 0.01084806929 | -471.64420 |
| CumDiff.100  | -6.060799422 | 0.00826091588 | -733.67161 |
| RHP          | 0.365749546  | 0.00073722529 | 496.11638  |
| ANN.HPA      | 0.827060914  | 0.00639826230 | 129.26336  |
| LTV.0        | 0.007122690  | 0.00009039244 | 78.79741   |
| LTV.AGE3     | -0.004774298 | 0.00003889380 | -122.75218 |
| PAY.INC.AGE4 | 0.008960673  | 0.00004162866 | 215.25249  |
| UER.L2       | -0.061459362 | 0.00020187252 | -304.44639 |
| AGE          | -0.012748074 | 0.00015026712 | -84.83608  |
| AGE.2        | -0.884050121 | 0.00342362021 | -258.22085 |
| SR           | -0.209410358 | 0.00109388557 | -191.43717 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 14141982 on 22333 degrees of freedom

Residual Deviance: 3838734 on 22315 degrees of freedom

Number of Fisher Scoring Iterations: 4

1 - RD/ND = 0.7286

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Mid LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|              | Df | Deviance | Resid. Df | Resid. Dev |
|--------------|----|----------|-----------|------------|
| NULL         |    |          | 22333     | 14141982   |
| INT.RT       | 1  | 311285   | 22332     | 13830697   |
| R.Prime      | 1  | 2397390  | 22331     | 11433307   |
| Yield.Diff   | 1  | 2144011  | 22330     | 9289296    |
| FR30.PDiff   | 1  | 433038   | 22329     | 8856258    |
| FR30.NDiff   | 1  | 1292599  | 22328     | 7563659    |
| Tbond.Vol    | 1  | 787426   | 22327     | 6776233    |
| NEGEQ.RGT102 | 1  | 1718     | 22326     | 6774515    |
| NEGEQ.RLT102 | 1  | 971948   | 22325     | 5802567    |
| CumDiff.100  | 1  | 1123631  | 22324     | 4678935    |
| RHP          | 1  | 256379   | 22323     | 4422557    |
| ANN.HPA      | 1  | 29390    | 22322     | 4393166    |
| LTV.0        | 1  | 11248    | 22321     | 4381919    |
| LTV.AGE3     | 1  | 280914   | 22320     | 4101005    |
| PAY.INC.AGE4 | 1  | 70455    | 22319     | 4030550    |
| UER.L2       | 1  | 84574    | 22318     | 3945976    |
| AGE          | 1  | 9932     | 22317     | 3936044    |
| AGE.2        | 1  | 60883    | 22316     | 3875161    |
| SR           | 1  | 36427    | 22315     | 3838734    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 30-Year Loans, Mid LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX30.60.LTVM.keep2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime       | Yield.Diff     |
|-----------|--------------|--------------|---------------|----------------|
| Min:      | 0.000000     | 6.8143000    | 6.288851e-001 | -1.836667e+000 |
| 1st Qu.:  | 390.625000   | 8.4492250    | 8.223315e-001 | 5.125000e-001  |
| Mean:     | 985.578725   | 9.6738431    | 9.610396e-001 | 1.239233e+000  |
| Median:   | 810.810811   | 9.3788500    | 9.781931e-001 | 1.101667e+000  |
| 3rd Qu.:  | 1319.444444  | 10.2924000   | 1.080910e+000 | 1.842500e+000  |
| Max:      | 5871.886121  | 15.7440000   | 1.693615e+000 | 3.532500e+000  |
| Total N:  | 22334.000000 | 22334.000000 | 2.233400e+004 | 2.233400e+004  |
| NA's :    | 0.000000     | 0.000000     | 0.000000e+000 | 0.000000e+000  |
| Std Dev.: | 823.771935   | 1.6044424    | 1.574719e-001 | 1.167975e+000  |
| Skewness: | 1.538038     | 0.9586355    | 1.121961e-002 | 8.965697e-002  |

|           | FR30.PDiff   | FR30.NDiff   | Tbond.Vol    | NEGEQ.RGT102  |
|-----------|--------------|--------------|--------------|---------------|
| Min:      | 0.0000000    | -9.0544000   | 0.1524845    | 0.000000e+000 |
| 1st Qu.:  | 0.0000000    | -0.8934604   | 0.2630704    | 0.000000e+000 |
| Mean:     | 1.0441187    | -0.9376405   | 0.4508579    | 3.931947e-002 |
| Median:   | 0.6594667    | 0.0000000    | 0.4079095    | 1.445000e-003 |
| 3rd Qu.:  | 1.7750604    | 0.0000000    | 0.5650282    | 4.415575e-002 |
| Max:      | 8.6711583    | 0.0000000    | 1.1849930    | 6.857790e-001 |
| Total N:  | 22334.000000 | 22334.000000 | 22334.000000 | 2.233400e+004 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.000000e+000 |
| Std Dev.: | 1.2258266    | 1.8837241    | 0.2382817    | 8.002602e-002 |
| Skewness: | 1.3311819    | 2.3555205    | 1.2027624    | 3.440309e+000 |

|           | NEGEQ.RLT102  | CumDiff.100   | RHP          | ANN.HPA       |
|-----------|---------------|---------------|--------------|---------------|
| Min:      | 0.000000e+000 | 0.000000e+000 | 0.4679000    | 9.138878e-001 |
| 1st Qu.:  | 0.000000e+000 | 0.000000e+000 | 0.6268000    | 1.021813e+000 |
| Mean:     | 2.102693e-002 | 5.136362e-002 | 0.9432665    | 1.042850e+000 |
| Median:   | 0.000000e+000 | 1.407696e-002 | 0.8761000    | 1.039538e+000 |
| 3rd Qu.:  | 7.966500e-003 | 6.982950e-002 | 1.1950750    | 1.056543e+000 |
| Max:      | 7.309490e-001 | 1.193816e+000 | 1.8687000    | 1.262416e+000 |
| Total N:  | 2.233400e+004 | 2.233400e+004 | 22334.000000 | 2.233400e+004 |
| NA's :    | 0.000000e+000 | 0.000000e+000 | 0.0000000    | 0.000000e+000 |
| Std Dev.: | 5.923809e-002 | 8.482571e-002 | 0.2971806    | 3.995001e-002 |
| Skewness: | 5.058180e+000 | 3.193283e+000 | 0.4658802    | 1.006001e+000 |

|           | LTV.0        | LTV.AGE3     | PAY.INC.AGE4 | UER.L2       |
|-----------|--------------|--------------|--------------|--------------|
| Min:      | 88.2820000   | 0.0000000    | 0.0000000    | 2.7862000    |
| 1st Qu.:  | 91.0647750   | 38.3900000   | 6.5423250    | 5.2711500    |
| Mean:     | 92.4614183   | 53.2902422   | 11.0064597   | 6.3791433    |
| Median:   | 93.0641000   | 58.5550000   | 12.2284500   | 6.2158000    |
| 3rd Qu.:  | 95.0962000   | 73.2975000   | 16.4458750   | 7.2542500    |
| Max:      | 95.7567000   | 109.8300000  | 33.1443000   | 12.6827000   |
| Total N:  | 22334.000000 | 22334.000000 | 22334.000000 | 22334.000000 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.0000000    |
| Std Dev.: | 2.4144945    | 26.0471278   | 6.8080768    | 1.5355437    |
| Skewness: | 0.3016601    | 0.6667702    | 0.3940495    | 0.7539903    |

|           | AGE           | AGE.2         | SR            |
|-----------|---------------|---------------|---------------|
| Min:      | 2.0000000     | 0.0000000     | 0.0000000     |
| 1st Qu.:  | 4.0000000     | 0.0000000     | 0.0000000     |
| Mean:     | 8.4340915     | 0.1031163     | 0.7177845     |
| Median:   | 7.0000000     | 0.0000000     | 1.0000000     |
| 3rd Qu.:  | 12.0000000    | 0.0000000     | 1.0000000     |
| Max:      | 27.0000000    | 1.0000000     | 1.0000000     |
| Total N:  | 22334.0000000 | 22334.0000000 | 22334.0000000 |
| NA's :    | 0.0000000     | 0.0000000     | 0.0000000     |
| Std Dev.: | 5.3683070     | 0.3041176     | 0.4500877     |
| Skewness: | 0.8939268     | 2.6103012     | 0.9678293     |

**Conditional Prepayment Rate Model**  
**Fixed Rate 15-Year Loans, High LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102.R + NEGEQ.RLT102.R +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3.R + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX15.LTVH.keep2001, na.action = na.exclude, control =
  list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median     | 3Q       | Max      |
|-----------|-----------|------------|----------|----------|
| -24.53767 | -5.195289 | -0.5041581 | 4.132723 | 48.25968 |

Coefficients:

|                | Value        | Std. Error   | t value    |
|----------------|--------------|--------------|------------|
| (Intercept)    | 3.491424001  | 0.1296243664 | 26.934936  |
| INT.RT         | -0.179147104 | 0.0020720255 | -86.459893 |
| R.Prime        | 2.884365307  | 0.0394571659 | 73.101178  |
| Yield.Diff     | 0.095509290  | 0.0017868428 | 53.451421  |
| FR30.PDiff     | 0.354003589  | 0.0035113293 | 100.817543 |
| FR30.NDiff     | 0.384946726  | 0.0065195310 | 59.045156  |
| Tbond.Vol      | 0.983771664  | 0.0123415161 | 79.712383  |
| NEGEQ.RGT102.R | 0.211649934  | 0.0343319601 | 6.164808   |
| NEGEQ.RLT102.R | 0.183875551  | 0.0444942857 | 4.132566   |
| CumDiff.100    | -5.556135359 | 0.0689594762 | -80.571020 |
| RHP            | 0.659056477  | 0.0046563626 | 141.538908 |
| ANN.HPA        | 0.671502247  | 0.1053567324 | 6.373605   |
| LTV.0          | 0.008303582  | 0.0003597400 | 23.082177  |
| LTV.AGE3.R     | 0.003062673  | 0.0005268515 | 5.813162   |
| PAY.INC.AGE4   | 0.006782427  | 0.0002302615 | 29.455321  |
| UER.L2         | -0.159960445 | 0.0030965410 | -51.657784 |
| AGE            | 0.093657863  | 0.0035413849 | 26.446677  |
| AGE.2          | -0.310442477 | 0.0480720382 | -6.457860  |
| SR             | -0.433200505 | 0.0088839012 | -48.762418 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 287598.1 on 844 degrees of freedom

Residual Deviance: 52368.33 on 826 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.8179

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, High LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|                | Df | Deviance | Resid. Df | Resid. Dev |
|----------------|----|----------|-----------|------------|
| NULL           |    |          | 844       | 287598.1   |
| INT.RT         | 1  | 1404.31  | 843       | 286193.8   |
| R.Prime        | 1  | 57968.80 | 842       | 228225.0   |
| Yield.Diff     | 1  | 33893.35 | 841       | 194331.6   |
| FR30.PDiff     | 1  | 23385.92 | 840       | 170945.7   |
| FR30.NDiff     | 1  | 39881.04 | 839       | 131064.7   |
| Tbond.Vol      | 1  | 6112.40  | 838       | 124952.3   |
| NEGEQ.RGT102.R | 1  | 10267.94 | 837       | 114684.3   |
| NEGEQ.RLT102.R | 1  | 7355.27  | 836       | 107329.0   |
| CumDiff.100    | 1  | 1422.06  | 835       | 105907.0   |
| RHP            | 1  | 16523.73 | 834       | 89383.3    |
| ANN.HPA        | 1  | 338.29   | 833       | 89045.0    |
| LTV.0          | 1  | 7575.93  | 832       | 81469.0    |
| LTV.AGE3.R     | 1  | 5522.08  | 831       | 75947.0    |
| PAY.INC.AGE4   | 1  | 2000.52  | 830       | 73946.4    |
| UER.L2         | 1  | 7675.24  | 829       | 66271.2    |
| AGE            | 1  | 11363.28 | 828       | 54907.9    |
| AGE.2          | 1  | 212.24   | 827       | 54695.7    |
| SR             | 1  | 2327.35  | 826       | 52368.3    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, High LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX15.LTVH.keep2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT      | R.Prime     | Yield.Diff     |
|-----------|--------------|-------------|-------------|----------------|
| Min:      | 0.0000000    | 6.7122000   | 0.86464830  | -8.333333e-004 |
| 1st Qu.:  | 624.3154436  | 7.6265000   | 1.00773081  | 5.125000e-001  |
| Mean:     | 1070.5132921 | 8.9620301   | 1.07266450  | 1.296084e+000  |
| Median:   | 1000.0000000 | 8.9893000   | 1.06348462  | 1.080833e+000  |
| 3rd Qu.:  | 1393.8053097 | 9.8929000   | 1.13320281  | 1.842500e+000  |
| Max:      | 3577.3480663 | 11.9360000  | 1.33998162  | 3.532500e+000  |
| Total N:  | 845.0000000  | 845.0000000 | 845.0000000 | 8.450000e+002  |
| NA's :    | 0.0000000    | 0.0000000   | 0.0000000   | 0.000000e+000  |
| Std Dev.: | 604.3343365  | 1.3753413   | 0.09153806  | 1.047259e+000  |
| Skewness: | 0.9180133    | 0.2076106   | 0.31718733  | 9.541921e-001  |

|           | FR30.PDiff  | FR30.NDiff  | Tbond.Vol   | NEGEQ.RGT102.R |
|-----------|-------------|-------------|-------------|----------------|
| Min:      | 0.0000000   | -2.8135750  | 0.1670511   | 0.000000e+000  |
| 1st Qu.:  | 0.0000000   | -0.2893333  | 0.2442056   | 8.472618e-007  |
| Mean:     | 0.8370050   | -0.2292545  | 0.3819741   | 4.416371e-002  |
| Median:   | 0.5214583   | 0.0000000   | 0.3741050   | 8.884505e-003  |
| 3rd Qu.:  | 1.4396667   | 0.0000000   | 0.4892356   | 6.541575e-002  |
| Max:      | 4.2145583   | 0.0000000   | 1.1849930   | 4.013359e-001  |
| Total N:  | 845.0000000 | 845.0000000 | 845.0000000 | 8.450000e+002  |
| NA's :    | 0.0000000   | 0.0000000   | 0.0000000   | 0.000000e+000  |
| Std Dev.: | 0.9232898   | 0.4466967   | 0.1909295   | 7.095066e-002  |
| Skewness: | 1.0434172   | 2.4493522   | 1.6710397   | 2.403991e+000  |

|           | NEGEQ.RLT102.R | CumDiff.100 | RHP         | ANN.HPA     |
|-----------|----------------|-------------|-------------|-------------|
| Min:      | 0.0000000      | 0.0000000   | 0.4391000   | 0.98653362  |
| 1st Qu.:  | 0.0000000      | 0.007995107 | 0.5289000   | 1.02703784  |
| Mean:     | 0.02645613     | 0.053082382 | 0.7607954   | 1.03642413  |
| Median:   | 0.0000000      | 0.025127000 | 0.8370000   | 1.03475810  |
| 3rd Qu.:  | 0.0000000      | 0.075389451 | 0.8606000   | 1.04401518  |
| Max:      | 0.50334879     | 0.385237109 | 1.2625000   | 1.10533993  |
| Total N:  | 845.0000000    | 845.0000000 | 845.0000000 | 845.0000000 |
| NA's :    | 0.0000000      | 0.0000000   | 0.0000000   | 0.0000000   |
| Std Dev.: | 0.07039530     | 0.065619719 | 0.2644529   | 0.01412823  |
| Skewness: | 3.25418910     | 1.817694058 | 0.5863961   | 0.52436708  |

|           | LTV.0       | LTV.AGE3.R  | PAY.INC.AGE4 | UER.L2      | AGE         |
|-----------|-------------|-------------|--------------|-------------|-------------|
| Min:      | 96.763200   | 0.0000000   | 0.0000000    | 4.0909000   | 2.0000000   |
| 1st Qu.:  | 97.096100   | 36.2856597  | 0.0000000    | 5.1831000   | 3.0000000   |
| Mean:     | 100.792895  | 52.5981869  | 10.8386680   | 5.9130007   | 5.7325444   |
| Median:   | 99.009000   | 60.4264822  | 14.2518000   | 5.7919000   | 5.0000000   |
| 3rd Qu.:  | 103.565500  | 75.0970844  | 16.3200000   | 6.7008000   | 8.0000000   |
| Max:      | 114.141500  | 96.2952541  | 21.3883000   | 9.5414000   | 15.0000000  |
| Total N:  | 845.0000000 | 845.0000000 | 845.0000000  | 845.0000000 | 845.0000000 |
| NA's :    | 0.0000000   | 0.0000000   | 0.0000000    | 0.0000000   | 0.0000000   |
| Std Dev.: | 5.113678    | 28.6256231  | 7.2995858    | 1.0175510   | 3.1127233   |
| Skewness: | 1.305682    | 0.7404749   | 0.6886106    | 0.5142947   | 0.7793729   |

|           | AGE.2       | SR          |
|-----------|-------------|-------------|
| Min:      | 0.0000000   | 0.0000000   |
| 1st Qu.:  | 0.0000000   | 1.0000000   |
| Mean:     | 0.1550296   | 0.9360947   |
| Median:   | 0.0000000   | 1.0000000   |
| 3rd Qu.:  | 0.0000000   | 1.0000000   |
| Max:      | 1.0000000   | 1.0000000   |
| Total N:  | 845.0000000 | 845.0000000 |
| NA's :    | 0.0000000   | 0.0000000   |
| Std Dev.: | 0.3621472   | 0.2447291   |
| Skewness: | 1.9096589   | 3.5723530   |

**Conditional Prepayment Rate Model**  
**Fixed Rate 15-Year Loans, Low LTV Category,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102.R + NEGEQ.RLT102.R +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3.R + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX15.LTVL.keep2001.200, na.action = na.exclude, control
  = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q       | Max      |
|-----------|-----------|-----------|----------|----------|
| -23.56285 | -6.003557 | -1.097288 | 4.480197 | 27.70118 |

Coefficients:

|                | Value       | Std. Error   | t value    |
|----------------|-------------|--------------|------------|
| (Intercept)    | 3.80498560  | 0.1286552345 | 29.575055  |
| INT.RT         | -0.13031091 | 0.0018840483 | -69.165377 |
| R.Prime        | 2.10843735  | 0.0414622371 | 50.851992  |
| Yield.Diff     | 0.15362382  | 0.0019273929 | 79.705502  |
| FR30.PDiff     | 0.27776770  | 0.0036961508 | 75.150532  |
| FR30.NDiff     | 0.35357606  | 0.0079496145 | 44.477133  |
| Tbond.Vol      | 0.62257638  | 0.0116250325 | 53.554807  |
| NEGEQ.RGT102.R | 6.81830925  | 0.4014865604 | 16.982659  |
| NEGEQ.RLT102.R | -8.61872908 | 0.9453588929 | -9.116886  |
| CumDiff.100    | -4.06929813 | 0.0597508925 | -68.104391 |
| RHP            | 0.32793625  | 0.0034811382 | 94.203743  |
| ANN.HPA        | 1.97599490  | 0.1055938758 | 18.713158  |
| LTV.0          | 0.01325011  | 0.0003046075 | 43.498979  |
| LTV.AGE3.R     | -0.01844120 | 0.0005134903 | -35.913440 |
| PAY.INC.AGE4   | 0.00773589  | 0.0002729116 | 28.345774  |
| UER.L2         | -0.05850695 | 0.0026764037 | -21.860285 |
| AGE            | -0.02112302 | 0.0024363345 | -8.670001  |
| AGE.2          | -1.67968288 | 0.0327052193 | -51.358252 |
| SR             | -0.46582170 | 0.0075005642 | -62.104888 |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 222001.6 on 660 degrees of freedom

Residual Deviance: 49175.2 on 642 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.7785

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, Low LTV Category Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|  |                | Df | Deviance | Resid. Df | Resid. Dev |
|--|----------------|----|----------|-----------|------------|
|  | NULL           |    |          | 660       | 222001.6   |
|  | INT.RT         | 1  | 5165.27  | 659       | 216836.3   |
|  | R.Prime        | 1  | 33845.86 | 658       | 182990.5   |
|  | Yield.Diff     | 1  | 36188.83 | 657       | 146801.7   |
|  | FR30.PDiff     | 1  | 14912.98 | 656       | 131888.7   |
|  | FR30.NDiff     | 1  | 36553.67 | 655       | 95335.0    |
|  | Tbond.Vol      | 1  | 5889.81  | 654       | 89445.2    |
|  | NEGEQ.RGT102.R | 1  | 10.84    | 653       | 89434.4    |
|  | NEGEQ.RLT102.R | 1  | 150.41   | 652       | 89283.9    |
|  | CumDiff.100    | 1  | 636.89   | 651       | 88647.0    |
|  | RHP            | 1  | 9715.23  | 650       | 78931.8    |
|  | ANN.HPA        | 1  | 1308.29  | 649       | 77623.5    |
|  | LTV.0          | 1  | 1962.93  | 648       | 75660.6    |
|  | LTV.AGE3.R     | 1  | 5586.26  | 647       | 70074.3    |
|  | PAY.INC.AGE4   | 1  | 4169.72  | 646       | 65904.6    |
|  | UER.L2         | 1  | 1726.94  | 645       | 64177.7    |
|  | AGE            | 1  | 8274.66  | 644       | 55903.0    |
|  | AGE.2          | 1  | 2965.55  | 643       | 52937.5    |
|  | SR             | 1  | 3762.28  | 642       | 49175.2    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, Low LTV Category Model.**

\*\*\* Summary Statistics for data in: Rev.FX15.LTVL.keep2001.200 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime      | Yield.Diff     |
|-----------|--------------|--------------|--------------|----------------|
| Min:      | 104.8951049  | 6.89750000   | 0.86037212   | -8.333333e-004 |
| 1st Qu.:  | 678.8511749  | 8.92020000   | 1.00981257   | 5.566667e-001  |
| Mean:     | 1126.9320062 | 9.61570333   | 1.08620454   | 1.403306e+000  |
| Median:   | 1054.8523207 | 9.43790000   | 1.08720237   | 1.094167e+000  |
| 3rd Qu.:  | 1449.2753623 | 10.95690000  | 1.15026594   | 1.842500e+000  |
| Max:      | 3295.2380952 | 12.09130000  | 1.39276735   | 3.532500e+000  |
| Total N:  | 661.00000000 | 661.00000000 | 661.00000000 | 6.610000e+002  |
| NA's :    | 0.00000000   | 0.00000000   | 0.00000000   | 0.000000e+000  |
| Std Dev.: | 615.4335243  | 1.33361679   | 0.09804141   | 1.072869e+000  |
| Skewness: | 0.7597673    | 0.00865502   | 0.26310281   | 7.807693e-001  |

|           | FR30.PDiff   | FR30.NDiff   | Tbond.Vol    | NEGEQ.RGT102.R |
|-----------|--------------|--------------|--------------|----------------|
| Min:      | 0.00000000   | -2.8689750   | 0.1670511    | 0.000000e+000  |
| 1st Qu.:  | 0.1270583    | 0.00000000   | 0.2442056    | 0.000000e+000  |
| Mean:     | 1.1960388    | -0.1799533   | 0.3988789    | 2.548450e-003  |
| Median:   | 1.1083333    | 0.00000000   | 0.3741050    | 2.021849e-004  |
| 3rd Qu.:  | 1.7719750    | 0.00000000   | 0.4892356    | 2.550411e-003  |
| Max:      | 4.6659583    | 0.00000000   | 1.1849930    | 3.393662e-002  |
| Total N:  | 661.00000000 | 661.00000000 | 661.00000000 | 6.610000e+002  |
| NA's :    | 0.00000000   | 0.00000000   | 0.00000000   | 0.000000e+000  |
| Std Dev.: | 1.0856621    | 0.4421744    | 0.2020001    | 5.136385e-003  |
| Skewness: | 0.9167645    | 3.1569142    | 1.7033237    | 2.954941e+000  |

|           | NEGEQ.RLT102.R | CumDiff.100  | RHP          | ANN.HPA      |
|-----------|----------------|--------------|--------------|--------------|
| Min:      | 0.000000e+000  | 0.00000000   | 0.5210000    | 0.97241521   |
| 1st Qu.:  | 0.000000e+000  | 0.01080733   | 0.5916000    | 1.02353997   |
| Mean:     | 9.240054e-004  | 0.08007198   | 0.9467643    | 1.03429710   |
| Median:   | 0.000000e+000  | 0.05223664   | 0.8646000    | 1.03383186   |
| 3rd Qu.:  | 0.000000e+000  | 0.12119611   | 1.3554000    | 1.04480273   |
| Max:      | 2.190528e-002  | 0.46589144   | 1.6327000    | 1.08278866   |
| Total N:  | 6.610000e+002  | 661.00000000 | 661.00000000 | 661.00000000 |
| NA's :    | 0.000000e+000  | 0.00000000   | 0.00000000   | 0.00000000   |
| Std Dev.: | 3.058493e-003  | 0.08786901   | 0.3611768    | 0.01646770   |
| Skewness: | 4.029011e+000  | 1.61160583   | 0.4970809    | 0.01050894   |

|           | LTV.0       | LTV.AGE3.R   | PAY.INC.AGE4 | UER.L2       | AGE          |
|-----------|-------------|--------------|--------------|--------------|--------------|
| Min:      | 57.858200   | 0.00000000   | 0.0000000    | 4.0884000    | 2.00000000   |
| 1st Qu.:  | 65.561200   | 17.8971451   | 10.694900    | 5.3876000    | 4.00000000   |
| Mean:     | 70.944310   | 34.4256592   | 11.627610    | 6.0341200    | 6.9652042    |
| Median:   | 68.113700   | 37.4800379   | 14.092000    | 5.8949000    | 6.00000000   |
| 3rd Qu.:  | 81.578700   | 50.8436377   | 16.258800    | 6.7834000    | 10.00000000  |
| Max:      | 82.171800   | 77.2985849   | 20.821400    | 9.6861000    | 15.00000000  |
| Total N:  | 661.0000000 | 661.00000000 | 661.0000000  | 661.00000000 | 661.00000000 |
| NA's :    | 0.0000000   | 0.00000000   | 0.0000000    | 0.00000000   | 0.00000000   |
| Std Dev.: | 7.372586    | 20.8006475   | 6.692087     | 1.0417586    | 3.7847781    |
| Skewness: | 0.561824    | 0.2514478    | 0.952051     | 0.7185162    | 0.4601118    |

|           | AGE.2       | SR          |
|-----------|-------------|-------------|
| Min:      | 0.0000000   | 0.0000000   |
| 1st Qu.:  | 0.0000000   | 1.0000000   |
| Mean:     | 0.1195159   | 0.9092284   |
| Median:   | 0.0000000   | 1.0000000   |
| 3rd Qu.:  | 0.0000000   | 1.0000000   |
| Max:      | 1.0000000   | 1.0000000   |
| Total N:  | 661.0000000 | 661.0000000 |
| NA's :    | 0.0000000   | 0.0000000   |
| Std Dev.: | 0.3246402   | 0.2875015   |
| Skewness: | 2.3511494   | 2.8554311   |

**Conditional Prepayment Rate Model**  
**Fixed Rate 15-Year Loans, Mid & Investor LTV Categories,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
  FR30.NDiff + Tbond.Vol + NEGEQ.RGT102.R + NEGEQ.RLT102.R +
  CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3.R + PAY.INC.AGE4 +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = Rev.FX15.LTVM.LTVI.keep2001, na.action = na.exclude, control
  = list(epsilon = 0.0001, maxit = 50, trace = F))
```

Deviance Residuals:

| Min     | 1Q        | Median     | 3Q       | Max      |
|---------|-----------|------------|----------|----------|
| -29.648 | -6.266123 | -0.5912101 | 4.705015 | 33.00864 |

Coefficients:

|                | Value         | Std. Error   | t value      |
|----------------|---------------|--------------|--------------|
| (Intercept)    | 3.0336086733  | 0.0908991407 | 33.3733482   |
| INT.RT         | -0.1519896324 | 0.0014159271 | -107.3428336 |
| R.Prime        | 3.5842734825  | 0.0349279632 | 102.6190238  |
| Yield.Diff     | 0.1514409483  | 0.0013719233 | 110.3858707  |
| FR30.PDiff     | 0.2284248212  | 0.0028751637 | 79.4475876   |
| FR30.NDiff     | 0.3420007250  | 0.0067121336 | 50.9526101   |
| Tbond.Vol      | 0.9779991294  | 0.0083245576 | 117.4836157  |
| NEGEQ.RGT102.R | -0.0639076796 | 0.0501695588 | -1.2738338   |
| NEGEQ.RLT102.R | -0.2190941656 | 0.1057654257 | -2.0715103   |
| CumDiff.100    | -5.0173239065 | 0.0567464339 | -88.4165500  |
| RHP            | 0.5585346633  | 0.0027369544 | 204.0716014  |
| ANN.HPA        | 0.6474592689  | 0.0666545488 | 9.7136547    |
| LTV.0          | 0.0068935297  | 0.0002387131 | 28.8778826   |
| LTV.AGE3.R     | -0.0003763312 | 0.0003764683 | -0.9996358   |
| PAY.INC.AGE4   | 0.0116392016  | 0.0001720187 | 67.6624371   |
| UER.L2         | -0.1359835880 | 0.0020789989 | -65.4082063  |
| AGE            | 0.0693058634  | 0.0022834153 | 30.3518435   |
| AGE.2          | -0.8106204826 | 0.0305752144 | -26.5123401  |
| SR             | -0.5317464603 | 0.0053598404 | -99.2093839  |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 635025.5 on 1418 degrees of freedom

Residual Deviance: 113744 on 1400 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.8209

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, Mid & Investor LTV Categories Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|                |   | Df       | Deviance | Resid. Df | Resid. Dev |
|----------------|---|----------|----------|-----------|------------|
| NULL           |   |          |          | 1418      | 635025.5   |
| INT.RT         | 1 | 1673.3   |          | 1417      | 633352.1   |
| R.Prime        | 1 | 143343.2 |          | 1416      | 490008.9   |
| Yield.Diff     | 1 | 84459.6  |          | 1415      | 405549.3   |
| FR30.PDiff     | 1 | 57870.3  |          | 1414      | 347679.0   |
| FR30.NDiff     | 1 | 96442.6  |          | 1413      | 251236.4   |
| Tbond.Vol      | 1 | 19768.7  |          | 1412      | 231467.7   |
| NEGEQ.RGT102.R | 1 | 1390.1   |          | 1411      | 230077.6   |
| NEGEQ.RLT102.R | 1 | 820.4    |          | 1410      | 229257.2   |
| CumDiff.100    | 1 | 1100.2   |          | 1409      | 228156.9   |
| RHP            | 1 | 39989.8  |          | 1408      | 188167.2   |
| ANN.HPA        | 1 | 33.4     |          | 1407      | 188133.8   |
| LTV.0          | 1 | 3428.7   |          | 1406      | 184705.1   |
| LTV.AGE3.R     | 1 | 29976.4  |          | 1405      | 154728.8   |
| PAY.INC.AGE4   | 1 | 6382.7   |          | 1404      | 148346.1   |
| UER.L2         | 1 | 5495.8   |          | 1403      | 142850.3   |
| AGE            | 1 | 18851.9  |          | 1402      | 123998.3   |
| AGE.2          | 1 | 678.7    |          | 1401      | 123319.6   |
| SR             | 1 | 9575.6   |          | 1400      | 113744.0   |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Fixed Rate 15-Year Loans, Mid & Investor LTV Categories Model.**

\*\*\* Summary Statistics for data in: Rev.FX15.LTVM.LTVI.keep2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime      | Yield.Diff     |
|-----------|--------------|--------------|--------------|----------------|
| Min:      | 13.5869565   | 6.9281000    | 0.85774772   | -8.333333e-004 |
| 1st Qu.:  | 566.3911418  | 9.0323500    | 1.00720143   | 8.058333e-001  |
| Mean:     | 1117.6446909 | 9.7626214    | 1.06839813   | 1.605282e+000  |
| Median:   | 1051.4018692 | 9.6301000    | 1.06788936   | 1.447500e+000  |
| 3rd Qu.:  | 1526.2963869 | 10.4596000   | 1.13010917   | 2.370000e+000  |
| Max:      | 3750.0000000 | 12.2705000   | 1.39426270   | 3.532500e+000  |
| Total N:  | 1419.0000000 | 1419.0000000 | 1419.0000000 | 1.419000e+003  |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.000000e+000  |
| Std Dev.: | 699.8935071  | 1.0547201    | 0.08688137   | 1.116102e+000  |
| Skewness: | 0.7444237    | 0.2217093    | 0.09352354   | 4.853157e-001  |

|           | FR30.PDiff   | FR30.NDiff   | Tbond.Vol    | NEGEQ.RGT102.R |
|-----------|--------------|--------------|--------------|----------------|
| Min:      | 0.0000000    | -2.9039750   | 0.1670511    | 0.000000e+000  |
| 1st Qu.:  | 0.1010125    | 0.0000000    | 0.2442056    | 4.302947e-007  |
| Mean:     | 1.0406299    | -0.1964339   | 0.4266699    | 1.753205e-002  |
| Median:   | 1.0314333    | 0.0000000    | 0.3903262    | 5.192494e-003  |
| 3rd Qu.:  | 1.6350375    | 0.0000000    | 0.5438436    | 2.383802e-002  |
| Max:      | 4.6818583    | 0.0000000    | 1.1849930    | 1.878691e-001  |
| Total N:  | 1419.0000000 | 1419.0000000 | 1419.0000000 | 1.419000e+003  |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.000000e+000  |
| Std Dev.: | 0.8917217    | 0.4820202    | 0.2143496    | 2.736028e-002  |
| Skewness: | 0.7001365    | 3.1330018    | 1.6218552    | 2.368426e+000  |

|           | NEGEQ.RLT102.R | CumDiff.100   | RHP          | ANN.HPA      |
|-----------|----------------|---------------|--------------|--------------|
| Min:      | 0.000000e+000  | 0.000000e+000 | 0.4661000    | 0.97927911   |
| 1st Qu.:  | 0.000000e+000  | 9.203062e-003 | 0.5715000    | 1.01946767   |
| Mean:     | 8.633773e-003  | 6.032928e-002 | 0.8658599    | 1.03095962   |
| Median:   | 0.000000e+000  | 4.078364e-002 | 0.8604000    | 1.02997163   |
| 3rd Qu.:  | 0.000000e+000  | 9.012278e-002 | 1.2048500    | 1.04019799   |
| Max:      | 2.128779e-001  | 4.448491e-001 | 1.5990000    | 1.11422076   |
| Total N:  | 1.419000e+003  | 1.419000e+003 | 1419.0000000 | 1419.0000000 |
| NA's :    | 0.000000e+000  | 0.000000e+000 | 0.0000000    | 0.00000000   |
| Std Dev.: | 2.510802e-002  | 6.444455e-002 | 0.3075050    | 0.01690431   |
| Skewness: | 3.754504e+000  | 1.606881e+000 | 0.4954581    | 0.62283517   |

|           | LTV.0        | LTV.AGE3.R   | PAY.INC.AGE4 | UER.L2       |
|-----------|--------------|--------------|--------------|--------------|
| Min:      | 76.9889000   | 0.0000000    | 0.0000000    | 3.9934000    |
| 1st Qu.:  | 86.1734000   | 28.0228983   | 0.0000000    | 5.5058500    |
| Mean:     | 89.9574111   | 46.3364690   | 11.4031094   | 6.2656686    |
| Median:   | 91.1203000   | 53.5968367   | 14.4585000   | 6.1496000    |
| 3rd Qu.:  | 95.1130000   | 67.3968879   | 16.7868500   | 6.9182000    |
| Max:      | 102.4375000  | 88.7705558   | 21.6652000   | 10.1283000   |
| Total N:  | 1419.0000000 | 1419.0000000 | 1419.0000000 | 1419.0000000 |
| NA's :    | 0.0000000    | 0.0000000    | 0.0000000    | 0.0000000    |
| Std Dev.: | 5.1470776    | 26.0413606   | 7.2212287    | 0.9940929    |
| Skewness: | 0.5908461    | 0.6083014    | 0.7630465    | 0.7710379    |

|           | AGE           | AGE.2         | SR            |
|-----------|---------------|---------------|---------------|
| Min:      | 2.00000000    | 0.00000000    | 0.00000000    |
| 1st Qu.:  | 3.00000000    | 0.00000000    | 1.00000000    |
| Mean:     | 6.2776603     | 0.1360113     | 0.8801973     |
| Median:   | 6.00000000    | 0.00000000    | 1.00000000    |
| 3rd Qu.:  | 9.00000000    | 0.00000000    | 1.00000000    |
| Max:      | 15.00000000   | 1.00000000    | 1.00000000    |
| Total N:  | 1419.00000000 | 1419.00000000 | 1419.00000000 |
| NA's :    | 0.00000000    | 0.00000000    | 0.00000000    |
| Std Dev.: | 3.5016218     | 0.3429214     | 0.3248451     |
| Skewness: | 0.7036527     | 2.1258660     | 2.3440951     |

**Conditional Prepayment Rate Model**  
**Adjustable Rate Loans, All LTV Categories,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT.t + R.Prime + Yield.Diff +
  FR30.PDiff + FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 +
  NEGEQ.RLT102 + RHP + LTV.0 + LTV.AGE3.t + PAY.INC.AGE4.t +
  UER.L2 + AGE + AGE.2 + SR, family = poisson(link = log), data
  = ARM, na.action = na.exclude, control = list(epsilon = 0.0001,
  maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median     | 3Q       | Max      |
|-----------|-----------|------------|----------|----------|
| -30.36723 | -6.413763 | -0.7951144 | 5.761937 | 29.33349 |

Coefficients:

|                | Value        | Std. Error    | t value    |
|----------------|--------------|---------------|------------|
| (Intercept)    | 15.574830007 | 0.03555849559 | 438.00588  |
| INT.RT.t       | -0.631600076 | 0.00121041283 | -521.80551 |
| R.Prime        | -1.158516020 | 0.01824080357 | -63.51233  |
| Yield.Diff     | -0.072953265 | 0.00104040724 | -70.11991  |
| FR30.PDiff     | 0.505388447  | 0.00589996665 | 85.65954   |
| FR30.NDiff     | 0.760170574  | 0.00295004094 | 257.68136  |
| Tbond.Vol      | 0.375567159  | 0.00842502584 | 44.57757   |
| NEGEQ.RGT102   | -0.326782467 | 0.01260243230 | -25.93011  |
| NEGEQ.RLT102   | 0.349803888  | 0.01840974488 | 19.00102   |
| RHP            | 0.281768906  | 0.00235420198 | 119.68765  |
| LTV.0          | -0.002829678 | 0.00018676223 | -15.15124  |
| LTV.AGE3.t     | -0.003840108 | 0.00021567792 | -17.80483  |
| PAY.INC.AGE4.t | 0.005988190  | 0.00009089174 | 65.88267   |
| UER.L2         | -0.247366520 | 0.00166078735 | -148.94533 |
| AGE            | -0.093286969 | 0.00068971342 | -135.25468 |
| AGE.2          | -0.936106145 | 0.01836326569 | -50.97711  |
| SR             | 0.122258676  | 0.02180772403 | 5.60621    |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 960488.8 on 1876 degrees of freedom

Residual Deviance: 158087.7 on 1860 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.8354

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Adjustable Rate Loans, All LTV Categories Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|         |              | Df | Deviance | Resid. Df | Resid. Dev |
|---------|--------------|----|----------|-----------|------------|
|         | NULL         |    |          | 1876      | 960488.8   |
|         | INT.RT.t     | 1  | 266991.4 | 1875      | 693497.4   |
|         | R.Prime      | 1  | 30526.1  | 1874      | 662971.3   |
|         | Yield.Diff   | 1  | 208213.4 | 1873      | 454757.9   |
|         | FR30.PDiff   | 1  | 15984.5  | 1872      | 438773.5   |
|         | FR30.NDiff   | 1  | 105965.0 | 1871      | 332808.4   |
|         | Tbond.Vol    | 1  | 4572.7   | 1870      | 328235.8   |
|         | NEGEQ.RGT102 | 1  | 15100.7  | 1869      | 313135.1   |
|         | NEGEQ.RLT102 | 1  | 64.6     | 1868      | 313070.5   |
|         | RHP          | 1  | 13270.0  | 1867      | 299800.5   |
|         | LTV.0        | 1  | 82.6     | 1866      | 299717.9   |
|         | LTV.AGE3.t   | 1  | 77868.6  | 1865      | 221849.3   |
| PAY.INC | AGE4.t       | 1  | 1970.6   | 1864      | 219878.7   |
|         | UER.L2       | 1  | 14729.2  | 1863      | 205149.4   |
|         | AGE          | 1  | 44435.6  | 1862      | 160713.8   |
|         | AGE.2        | 1  | 2594.2   | 1861      | 158119.6   |
|         | SR           | 1  | 31.9     | 1860      | 158087.7   |

# **Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Adjustable Rate Loans, All LTV Categories Model.**

\*\*\* Summary Statistics for data in: ARM \*\*\*

|           | CPR.10K.Adj  | INT.RT.t     | R.Prime      | Yield.Diff     |
|-----------|--------------|--------------|--------------|----------------|
| Min:      | 35.599858    | 4.7448000    | 0.94550110   | -8.333333e-004 |
| 1st Qu.:  | 703.883495   | 6.1984333    | 1.08696734   | 5.125000e-001  |
| Mean:     | 1311.987897  | 6.9597996    | 1.15452469   | 1.154117e+000  |
| Median:   | 1177.142857  | 6.8024000    | 1.14385463   | 1.080833e+000  |
| 3rd Qu.:  | 1730.545877  | 7.5810000    | 1.20989399   | 1.101667e+000  |
| Max:      | 4380.574827  | 10.4960667   | 1.39863636   | 3.532500e+000  |
| Total N:  | 1877.0000000 | 1877.0000000 | 1877.0000000 | 1.877000e+003  |
| NA's :    | 0.0000000    | 0.0000000    | 0.00000000   | 0.000000e+000  |
| Std Dev.: | 830.900695   | 1.0822064    | 0.09513465   | 9.899487e-001  |
| Skewness: | 1.029867     | 0.8667417    | 0.30039848   | 1.266840e+000  |

|           | FR30.PDiff     | FR30.NDiff    | Tbond.Vol     | NEGEQ.RGT102  |
|-----------|----------------|---------------|---------------|---------------|
| Min:      | 0.000000000    | -3.0988667    | 0.1670511     | 0.000000000   |
| 1st Qu.:  | 0.000000000    | -1.5052667    | 0.2221844     | 0.00740400    |
| Mean:     | 0.03375111     | -1.0429992    | 0.3507373     | 0.09330771    |
| Median:   | 0.000000000    | -1.0579667    | 0.2876590     | 0.06775600    |
| 3rd Qu.:  | 0.000000000    | -0.5838667    | 0.4079095     | 0.13945800    |
| Max:      | 0.96392500     | 0.00000000    | 0.7438531     | 0.76794500    |
| Total N:  | 1877.000000000 | 1877.00000000 | 1877.00000000 | 1877.00000000 |
| NA's :    | 0.000000000    | 0.00000000    | 0.00000000    | 0.000000000   |
| Std Dev.: | 0.12330856     | 0.6633694     | 0.1442880     | 0.10306682    |
| Skewness: | 4.42753824     | 0.1086908     | 0.6104766     | 1.87716497    |

|           | NEGEQ.RLT102   | RHP           | LTV.0         | LTV.AGE3.t    |
|-----------|----------------|---------------|---------------|---------------|
| Min:      | 0.000000000    | 0.5297000     | 69.6973000    | 0.0000000     |
| 1st Qu.:  | 0.000000000    | 0.6267000     | 91.1156000    | 58.335219     |
| Mean:     | 0.01561903     | 0.9635318     | 93.7483948    | 60.426896     |
| Median:   | 0.000000000    | 0.8783000     | 95.2585000    | 72.137718     |
| 3rd Qu.:  | 0.000000000    | 1.2310000     | 97.1815000    | 80.334375     |
| Max:      | 0.46891200     | 1.8982000     | 112.1077000   | 104.645263    |
| Total N:  | 1877.000000000 | 1877.00000000 | 1877.00000000 | 1877.00000000 |
| NA's :    | 0.000000000    | 0.00000000    | 0.00000000    | 0.0000000     |
| Std Dev.: | 0.04553679     | 0.2874507     | 7.0467023     | 30.677532     |
| Skewness: | 4.55762014     | 0.1675173     | 0.9201257     | 1.237963      |

|           | PAY.INC.AGE4.t | UER.L2        | AGE           | AGE.2         | SR            |
|-----------|----------------|---------------|---------------|---------------|---------------|
| Min:      | 0.000000000    | 3.8541000     | 2.00000000    | 0.00000000    | 0.000000000   |
| 1st Qu.:  | 0.000000000    | 5.0249000     | 3.00000000    | 0.00000000    | 1.000000000   |
| Mean:     | 11.87006371    | 5.6878991     | 5.2163026     | 0.1880661     | 0.99360682    |
| Median:   | 13.18501661    | 5.6127000     | 5.00000000    | 0.00000000    | 1.000000000   |
| 3rd Qu.:  | 19.69047489    | 6.3980000     | 7.00000000    | 0.00000000    | 1.000000000   |
| Max:      | 32.13885408    | 7.9588000     | 15.00000000   | 1.00000000    | 1.000000000   |
| Total N:  | 1877.000000000 | 1877.00000000 | 1877.00000000 | 1877.00000000 | 1877.00000000 |
| NA's :    | 0.000000000    | 0.00000000    | 0.00000000    | 0.00000000    | 0.000000000   |
| Std Dev.: | 9.67587487     | 0.9016813     | 2.8809148     | 0.3908690     | 0.07972261    |
| Skewness: | 0.05838908     | 0.1587578     | 0.9698009     | 1.5978071     | 12.39631660   |

**Conditional Prepayment Rate Model**  
**Streamline Refinanced Fixed Rate 30-Year Loans, All LTV Categories,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 + NEGEQ.RLT102 +
CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3 + PAY.INC.AGE4 +
UER.L2 + AGE + AGE.2 + SR + REFI, family = poisson(link = log),
data = SRFX30.plus.FX30.LTVH.60....keep.2001, na.action =
na.exclude, control = list(epsilon = 0.0001, maxit = 50, trace
= F))
```

Deviance Residuals:

| Min       | 1Q        | Median    | 3Q       | Max      |
|-----------|-----------|-----------|----------|----------|
| -65.82108 | -9.102017 | -1.566494 | 6.153733 | 71.22504 |

Coefficients:

|              | Value        | Std. Error    | t value    |
|--------------|--------------|---------------|------------|
| (Intercept)  | 3.628399634  | 0.01434368847 | 252.96141  |
| INT.RT       | -0.181801040 | 0.00033543374 | -541.98793 |
| R.Prime      | 2.768431512  | 0.00659592315 | 419.71858  |
| Yield.Diff   | 0.091678143  | 0.00033095070 | 277.01450  |
| FR30.PDiff   | 0.437144254  | 0.00070122126 | 623.40416  |
| FR30.NDiff   | 0.183741343  | 0.00041423665 | 443.56612  |
| Tbond.Vol    | 0.652673605  | 0.00167140031 | 390.49508  |
| NEGEQ.RGT102 | -0.482678944 | 0.00369946107 | -130.47277 |
| NEGEQ.RLT102 | -2.322794883 | 0.00573011366 | -405.36628 |
| CumDiff.100  | -6.106161223 | 0.00986329931 | -619.07897 |
| RHP          | 0.443035636  | 0.00098533722 | 449.62844  |
| ANN.HPA      | 0.995825525  | 0.00876363958 | 113.63150  |
| LTV.0        | 0.014188335  | 0.00005764616 | 246.12802  |
| LTV.AGE3     | -0.007570362 | 0.00004240796 | -178.51277 |
| PAY.INC.AGE4 | 0.002826137  | 0.00004759175 | 59.38293   |
| UER.L2       | -0.060269121 | 0.00025451568 | -236.79924 |
| AGE          | -0.003816097 | 0.00016823843 | -22.68267  |
| AGE.2        | -0.912907300 | 0.00404816511 | -225.51138 |
| SR           | -0.202700165 | 0.00142937297 | -141.81055 |
| REFI         | 0.273061289  | 0.00097152371 | 281.06498  |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 8894223 on 17032 degrees of freedom

Residual Deviance: 2715046 on 17013 degrees of freedom

Number of Fisher Scoring Iterations: 4

1 - RD/ND = 0.6947

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Fixed Rate 30-Year Loans, All LTV Categories Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|              |   | Df      | Deviance | Resid. Df | Resid. Dev |
|--------------|---|---------|----------|-----------|------------|
| NULL         |   |         |          | 17032     | 8894223    |
| INT.RT       | 1 | 40557   |          | 17031     | 8853665    |
| R.Prime      | 1 | 2084289 |          | 17030     | 6769376    |
| Yield.Diff   | 1 | 1054665 |          | 17029     | 5714711    |
| FR30.PDiff   | 1 | 386105  |          | 17028     | 5328606    |
| FR30.NDiff   | 1 | 463434  |          | 17027     | 4865172    |
| Tbond.Vol    | 1 | 306319  |          | 17026     | 4558853    |
| NEGEQ.RGT102 | 1 | 1190    |          | 17025     | 4557663    |
| NEGEQ.RLT102 | 1 | 732169  |          | 17024     | 3825494    |
| CumDiff.100  | 1 | 620090  |          | 17023     | 3205404    |
| RHP          | 1 | 192603  |          | 17022     | 3012801    |
| ANN.HPA      | 1 | 27018   |          | 17021     | 2985783    |
| LTV.0        | 1 | 24210   |          | 17020     | 2961573    |
| LTV.AGE3     | 1 | 21416   |          | 17019     | 2940157    |
| PAY.INC.AGE4 | 1 | 7403    |          | 17018     | 2932754    |
| UER.L2       | 1 | 51487   |          | 17017     | 2881267    |
| AGE          | 1 | 25459   |          | 17016     | 2855807    |
| AGE.2        | 1 | 47661   |          | 17015     | 2808147    |
| SR           | 1 | 17603   |          | 17014     | 2790544    |
| REFI         | 1 | 75497   |          | 17013     | 2715046    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Fixed Rate 30-Year Loans, All LTV Categories Model.**

\*\*\* Summary Statistics for data in: SRF30.plus.FX30.LTVH.60....keep.2001 \*\*\*

|           | CPR.10K.Adj  | INT.RT       | R.Prime      | Yield.Diff   |
|-----------|--------------|--------------|--------------|--------------|
| Min:      | 0.000000     | 6.893200     | 0.6233169    | -1.8366667   |
| 1st Qu.:  | 417.032485   | 8.279000     | 0.8292294    | 0.5125000    |
| Mean:     | 917.708549   | 9.347375     | 0.9608238    | 1.1844896    |
| Median:   | 778.291965   | 8.879000     | 0.9813053    | 1.0941667    |
| 3rd Qu.:  | 1194.471866  | 9.981000     | 1.0746538    | 1.7525000    |
| Max:      | 6116.838488  | 15.791900    | 1.5030584    | 3.5325000    |
| Total N:  | 17033.000000 | 17033.000000 | 17033.000000 | 17033.000000 |
| NA's :    | 0.000000     | 0.000000     | 0.000000     | 0.000000     |
| Std Dev.: | 731.204445   | 1.502810     | 0.1540371    | 1.1377074    |
| Skewness: | 1.760217     | 1.190782     | 0.0210058    | 0.2552985    |

|           | FR30.PDiff   | FR30.NDiff   | Tbond.Vol    | NEGEQ.RGT102  |
|-----------|--------------|--------------|--------------|---------------|
| Min:      | 0.000000     | -9.044800    | 0.1524845    | 0.000000e+000 |
| 1st Qu.:  | 0.000000     | -0.7513250   | 0.2630704    | 0.000000e+000 |
| Mean:     | 0.9461166    | -0.8562232   | 0.4276459    | 6.757299e-002 |
| Median:   | 0.5520667    | 0.000000     | 0.3903262    | 9.740000e-004 |
| 3rd Qu.:  | 1.5796250    | 0.000000     | 0.5650282    | 8.681700e-002 |
| Max:      | 8.1291833    | 0.000000     | 1.1849930    | 8.151540e-001 |
| Total N:  | 17033.000000 | 17033.000000 | 17033.000000 | 1.703300e+004 |
| NA's :    | 0.000000     | 0.000000     | 0.000000     | 0.000000e+000 |
| Std Dev.: | 1.1537362    | 1.8009711    | 0.2283845    | 1.214622e-001 |
| Skewness: | 1.4974106    | 2.5372539    | 1.2987492    | 2.417868e+000 |

|           | NEGEQ.RLT102  | CumDiff.100   | RHP          | ANN.HPA       |
|-----------|---------------|---------------|--------------|---------------|
| Min:      | 0.000000e+000 | 0.000000e+000 | 0.3851000    | 9.151299e-001 |
| 1st Qu.:  | 0.000000e+000 | 0.000000e+000 | 0.5781000    | 1.024587e+000 |
| Mean:     | 4.544992e-002 | 4.702872e-002 | 0.8155784    | 1.043283e+000 |
| Median:   | 0.000000e+000 | 1.359058e-002 | 0.8422000    | 1.040376e+000 |
| 3rd Qu.:  | 1.765100e-002 | 5.994633e-002 | 0.8807000    | 1.054969e+000 |
| Max:      | 9.357500e-001 | 8.868652e-001 | 1.6402000    | 1.261170e+000 |
| Total N:  | 1.703300e+004 | 1.703300e+004 | 17033.000000 | 1.703300e+004 |
| NA's :    | 0.000000e+000 | 0.000000e+000 | 0.000000     | 0.000000e+000 |
| Std Dev.: | 1.129684e-001 | 7.980564e-002 | 0.2579533    | 3.630098e-002 |
| Skewness: | 3.439945e+000 | 3.227648e+000 | 0.5669447    | 1.179633e+000 |

|           | LTV.0        | LTV.AGE3     | PAY.INC.AGE4 | UER.L2       |
|-----------|--------------|--------------|--------------|--------------|
| Min:      | 57.153700    | 0.000000     | 0.000000     | 2.842400     |
| 1st Qu.:  | 96.952600    | 36.570000    | 5.322700     | 5.122500     |
| Mean:     | 98.592842    | 55.385666    | 10.362000    | 6.231382     |
| Median:   | 98.564900    | 61.460000    | 11.192200    | 6.016200     |
| 3rd Qu.:  | 99.212800    | 77.910000    | 16.107200    | 7.094000     |
| Max:      | 116.944200   | 127.550000   | 30.916300    | 12.882800    |
| Total N:  | 17033.000000 | 17033.000000 | 17033.000000 | 17033.000000 |
| NA's :    | 0.000000     | 0.000000     | 0.000000     | 0.000000     |
| Std Dev.: | 4.863154     | 28.731485    | 6.879298     | 1.547162     |
| Skewness: | 2.012418     | 0.553380     | 0.206038     | 0.835758     |

**Exhibit A.20**  
**Page 4**

|           | AGE           | AGE.2         | SR            | REFI          |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 2.0000000     | 0.0000000     | 0.0000000     | 0.000000e+000 |
| 1st Qu.:  | 4.0000000     | 0.0000000     | 1.0000000     | 0.000000e+000 |
| Mean:     | 8.6646510     | 0.1097282     | 0.7663359     | 7.415018e-002 |
| Median:   | 7.0000000     | 0.0000000     | 1.0000000     | 0.000000e+000 |
| 3rd Qu.:  | 12.0000000    | 0.0000000     | 1.0000000     | 0.000000e+000 |
| Max:      | 27.0000000    | 1.0000000     | 1.0000000     | 1.000000e+000 |
| Total N:  | 17033.0000000 | 17033.0000000 | 17033.0000000 | 1.703300e+004 |
| NA's :    | 0.0000000     | 0.0000000     | 0.0000000     | 0.000000e+000 |
| Std Dev.: | 5.8746520     | 0.3125598     | 0.4231733     | 2.620228e-001 |
| Skewness: | 0.9595766     | 2.4975549     | 1.2589035     | 3.250861e+000 |

**Conditional Prepayment Rate Model**  
**Streamline Refinanced Fixed Rate 15-Year Loans, All LTV Categories,**  
**Across all census divisions, relative house price range categories and LTV**  
**increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT + R.Prime + Yield.Diff + FR30.PDiff +
FR30.NDiff + Tbond.Vol + NEGEQ.RGT102.R + NEGEQ.RLT102.R +
CumDiff.100 + RHP + ANN.HPA + LTV.0 + LTV.AGE3.R + PAY.INC.AGE4 +
UER.L2 + AGE + AGE.2 + SR + REFI, family = poisson(link = log),
data = SRFX15.plus.FX15.LTVH...keep.2001, na.action =
na.exclude, control = list(epsilon = 0.0001, maxit = 50, trace
= F))
```

Deviance Residuals:

| Min       | 1Q        | Median     | 3Q       | Max      |
|-----------|-----------|------------|----------|----------|
| -26.70636 | -5.076701 | -0.4030744 | 3.957782 | 48.33714 |

Coefficients:

|                | Value        | Std. Error   | t value     |
|----------------|--------------|--------------|-------------|
| (Intercept)    | 4.970734076  | 0.0800726341 | 62.077814   |
| INT.RT         | -0.188308839 | 0.0018289622 | -102.959393 |
| R.Prime        | 2.532514043  | 0.0302806926 | 83.634614   |
| Yield.Diff     | 0.084822740  | 0.0014903689 | 56.913922   |
| FR30.PDiff     | 0.396446736  | 0.0028211929 | 140.524506  |
| FR30.NDiff     | 0.336374020  | 0.0042468647 | 79.205260   |
| Tbond.Vol      | 1.039278225  | 0.0100148609 | 103.773605  |
| NEGEQ.RGT102.R | 0.457818148  | 0.0196159799 | 23.339040   |
| NEGEQ.RLT102.R | 0.166330637  | 0.0225972432 | 7.360661    |
| CumDiff.100    | -5.902207213 | 0.0595468727 | -99.118676  |
| RHP            | 0.429007836  | 0.0035321781 | 121.457022  |
| ANN.HPA        | 0.358629862  | 0.0689695455 | 5.199829    |
| LTV.0          | -0.004263900 | 0.0001928232 | -22.113004  |
| LTV.AGE3.R     | 0.012129892  | 0.0002646452 | 45.834538   |
| PAY.INC.AGE4   | 0.003902103  | 0.0001672474 | 23.331324   |
| UER.L2         | -0.197492855 | 0.0024574071 | -80.366355  |
| AGE            | 0.150022032  | 0.0018896177 | 79.392795   |
| AGE.2          | 0.514231420  | 0.0223555632 | 23.002392   |
| SR             | -0.393576325 | 0.0081808614 | -48.109399  |
| REFI           | 0.061495051  | 0.0048586196 | 12.656898   |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 390417 on 1436 degrees of freedom

Residual Deviance: 84214.36 on 1417 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.7843

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Fixed Rate 15-Year Loans, All LTV Categories Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|                | Df | Deviance | Resid. Df | Resid. Dev |
|----------------|----|----------|-----------|------------|
| NULL           |    |          | 1436      | 390417.0   |
| INT.RT         | 1  | 11789.27 | 1435      | 378627.7   |
| R.Prime        | 1  | 78506.77 | 1434      | 300120.9   |
| Yield.Diff     | 1  | 20963.29 | 1433      | 279157.6   |
| FR30.PDiff     | 1  | 26886.04 | 1432      | 252271.6   |
| FR30.NDiff     | 1  | 70032.01 | 1431      | 182239.6   |
| Tbond.Vol      | 1  | 3898.72  | 1430      | 178340.9   |
| NEGEQ.RGT102.R | 1  | 8350.27  | 1429      | 169990.6   |
| NEGEQ.RLT102.R | 1  | 6409.74  | 1428      | 163580.9   |
| CumDiff.100    | 1  | 3570.58  | 1427      | 160010.3   |
| RHP            | 1  | 12732.01 | 1426      | 147278.3   |
| ANN.HPA        | 1  | 3098.48  | 1425      | 144179.8   |
| LTV.0          | 1  | 9950.41  | 1424      | 134229.4   |
| LTV.AGE3.R     | 1  | 12825.10 | 1423      | 121404.3   |
| PAY.INC.AGE4   | 1  | 2646.65  | 1422      | 118757.6   |
| UER.L2         | 1  | 14679.68 | 1421      | 104078.0   |
| AGE            | 1  | 17282.92 | 1420      | 86795.0    |
| AGE.2          | 1  | 147.73   | 1419      | 86647.3    |
| SR             | 1  | 2272.91  | 1418      | 84374.4    |
| REFI           | 1  | 160.03   | 1417      | 84214.4    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Fixed Rate 15-Year Loans, All LTV Categories Model.**

\*\*\* Summary Statistics for data in: SRFX15.plus.FX15.LTVH...keep.2001 \*\*\*

|           | CPR.10K.Adj | INT.RT      | R.Prime     | Yield.Diff     |
|-----------|-------------|-------------|-------------|----------------|
| Min:      | 0.000000    | 6.541800    | 0.86464830  | -8.333333e-004 |
| 1st Qu.:  | 626.272912  | 7.287200    | 0.99353562  | 5.125000e-001  |
| Mean:     | 1010.210944 | 8.3215118   | 1.04922752  | 1.151947e+000  |
| Median:   | 955.414013  | 7.949200    | 1.03370842  | 1.080833e+000  |
| 3rd Qu.:  | 1273.747841 | 9.367900    | 1.10282299  | 1.101667e+000  |
| Max:      | 3800.000000 | 11.936000   | 1.33998162  | 3.532500e+000  |
| Total N:  | 1437.000000 | 1437.000000 | 1437.000000 | 1.437000e+003  |
| NA's :    | 0.000000    | 0.000000    | 0.000000    | 0.000000e+000  |
| Std Dev.: | 532.302750  | 1.3366710   | 0.08427726  | 9.432943e-001  |
| Skewness: | 1.111359    | 0.8732308   | 0.61533161  | 1.245913e+000  |

  

|           | FR30.PDiff  | FR30.NDiff  | Tbond.Vol   | NEGEQ.RGT102.R |
|-----------|-------------|-------------|-------------|----------------|
| Min:      | 0.000000    | -2.8135750  | 0.1670511   | 0.000000e+000  |
| 1st Qu.:  | 0.000000    | -0.4977750  | 0.2442056   | 0.000000e+000  |
| Mean:     | 0.5523035   | -0.3052668  | 0.3693883   | 4.928318e-002  |
| Median:   | 0.1103583   | 0.000000    | 0.3096369   | 8.051259e-003  |
| 3rd Qu.:  | 0.9199333   | 0.000000    | 0.4892356   | 7.123526e-002  |
| Max:      | 4.2145583   | 0.000000    | 1.1849930   | 5.501447e-001  |
| Total N:  | 1437.000000 | 1437.000000 | 1437.000000 | 1.437000e+003  |
| NA's :    | 0.000000    | 0.000000    | 0.000000    | 0.000000e+000  |
| Std Dev.: | 0.8049903   | 0.4536289   | 0.1756111   | 8.149225e-002  |
| Skewness: | 1.6831435   | 1.7043550   | 1.4526129   | 2.529982e+000  |

  

|           | NEGEQ.RLT102.R | CumDiff.100   | RHP         | ANN.HPA     |
|-----------|----------------|---------------|-------------|-------------|
| Min:      | 0.000000       | 0.000000e+000 | 0.4391000   | 0.98653362  |
| 1st Qu.:  | 0.000000       | 4.064667e-003 | 0.5473000   | 1.03325379  |
| Mean:     | 0.03627708     | 3.707118e-002 | 0.8011988   | 1.05986723  |
| Median:   | 0.000000       | 1.500667e-002 | 0.8467000   | 1.05058095  |
| 3rd Qu.:  | 0.02051442     | 4.395466e-002 | 0.8715000   | 1.07888809  |
| Max:      | 0.55253199     | 3.852371e-001 | 1.3906000   | 1.17061323  |
| Total N:  | 1437.000000    | 1.437000e+003 | 1437.000000 | 1437.000000 |
| NA's :    | 0.000000       | 0.000000e+000 | 0.000000    | 0.000000    |
| Std Dev.: | 0.08224047     | 5.503170e-002 | 0.2700788   | 0.03427752  |
| Skewness: | 2.99528048     | 2.503081e+000 | 0.4471017   | 0.82064985  |

  

|           | LTV.0       | LTV.AGE3.R  | PAY.INC.AGE4 | UER.L2      |
|-----------|-------------|-------------|--------------|-------------|
| Min:      | 60.890700   | 0.000000    | 0.000000     | 4.0623000   |
| 1st Qu.:  | 96.977000   | 30.8902217  | 0.000000     | 5.0152000   |
| Mean:     | 97.835405   | 48.0792749  | 10.7719745   | 5.7512086   |
| Median:   | 98.562700   | 54.1069956  | 14.8203000   | 5.6300000   |
| 3rd Qu.:  | 99.574700   | 70.6248042  | 16.8809000   | 6.4911000   |
| Max:      | 114.331400  | 96.2952541  | 21.3883000   | 9.5414000   |
| Total N:  | 1437.000000 | 1437.000000 | 1437.000000  | 1437.000000 |
| NA's :    | 0.000000    | 0.000000    | 0.000000     | 0.000000    |
| Std Dev.: | 8.747602    | 27.7854764  | 7.7767418    | 0.9695318   |
| Skewness: | 1.670109    | 0.5506013   | 0.5702988    | 0.5079976   |

|           | AGE           | AGE.2         | SR            | REFI          |
|-----------|---------------|---------------|---------------|---------------|
| Min:      | 2.00000000    | 0.00000000    | 0.00000000    | 0.00000000    |
| 1st Qu.:  | 3.00000000    | 0.00000000    | 1.00000000    | 0.00000000    |
| Mean:     | 5.2943633     | 0.1718859     | 0.9624217     | 0.4119694     |
| Median:   | 5.00000000    | 0.00000000    | 1.00000000    | 0.00000000    |
| 3rd Qu.:  | 7.00000000    | 0.00000000    | 1.00000000    | 1.00000000    |
| Max:      | 15.00000000   | 1.00000000    | 1.00000000    | 1.00000000    |
| Total N:  | 1437.00000000 | 1437.00000000 | 1437.00000000 | 1437.00000000 |
| NA's :    | 0.00000000    | 0.00000000    | 0.00000000    | 0.00000000    |
| Std Dev.: | 2.8166443     | 0.3774126     | 0.1902402     | 0.4923610     |
| Skewness: | 0.8837173     | 1.7411791     | 4.8682258     | 0.3580841     |

**Conditional Prepayment Rate Model  
Streamline Refinanced Adjustable Rate Loans, All LTV Categories,  
Across all census divisions, relative house price range categories and LTV  
increments.**

```
Call: glm(formula = CPR.10K.Adj ~ INT.RT.t + R.Prime + Yield.Diff +
  FR30.PDiff + FR30.NDiff + Tbond.Vol + NEGEQ.RGT102 +
  NEGEQ.RLT102 + RHP + LTV.0 + LTV.AGE3.t + PAY.INC.AGE4.t +
  UER.L2 + AGE + AGE.2, family = poisson(link = log), data =
  SRARM, na.action = na.exclude, control = list(epsilon = 0.0001,
  maxit = 50, trace = F))
```

Deviance Residuals:

| Min       | 1Q        | Median      | 3Q       | Max      |
|-----------|-----------|-------------|----------|----------|
| -27.40829 | -5.620208 | -0.05344025 | 5.231848 | 38.83944 |

Coefficients:

|                | Value        | Std. Error   | t value     |
|----------------|--------------|--------------|-------------|
| (Intercept)    | 11.299263721 | 0.0883382845 | 127.909024  |
| INT.RT.t       | -0.765410892 | 0.0038583429 | -198.378139 |
| R.Prime        | 2.014716436  | 0.0474372365 | 42.471202   |
| Yield.Diff     | -0.284981122 | 0.0039714825 | -71.756862  |
| FR30.PDiff     | 0.359065105  | 0.0104675449 | 34.302705   |
| FR30.NDiff     | 0.593582663  | 0.0077907741 | 76.190460   |
| Tbond.Vol      | 0.039297154  | 0.0183884866 | 2.137052    |
| NEGEQ.RGT102   | -1.103041762 | 0.0236130204 | -46.713285  |
| NEGEQ.RLT102   | -1.361479974 | 0.0286723373 | -47.484095  |
| RHP            | 0.331237734  | 0.0066715298 | 49.649442   |
| LTV.0          | 0.017958908  | 0.0005574095 | 32.218519   |
| LTV.AGE3.t     | -0.003212004 | 0.0005344052 | -6.010428   |
| PAY.INC.AGE4.t | -0.001489115 | 0.0002269129 | -6.562497   |
| UER.L2         | -0.194875711 | 0.0046399904 | -41.999163  |
| AGE            | -0.180087624 | 0.0021212125 | -84.898434  |
| AGE.2          | -0.507357553 | 0.0491593753 | -10.320667  |

(Dispersion Parameter for Poisson family taken to be 1 )

Null Deviance: 130754 on 295 degrees of freedom

Residual Deviance: 25717.2 on 280 degrees of freedom

Number of Fisher Scoring Iterations: 3

1 - RD/ND = 0.8033

**Analysis of Deviance Table for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Adjustable Rate Loans, All LTV Categories Model.**

Poisson model

Response: CPR.10K.Adj

Terms added sequentially (first to last)

|  |                | Df | Deviance | Resid. Df | Resid. Dev |
|--|----------------|----|----------|-----------|------------|
|  | NULL           |    |          | 295       | 130754.0   |
|  | INT.RT.t       | 1  | 33529.92 | 294       | 97224.1    |
|  | R.Prime        | 1  | 942.79   | 293       | 96281.3    |
|  | Yield.Diff     | 1  | 35960.05 | 292       | 60321.3    |
|  | FR30.PDiff     | 1  | 1964.35  | 291       | 58356.9    |
|  | FR30.NDiff     | 1  | 10011.77 | 290       | 48345.1    |
|  | Tbond.Vol      | 1  | 88.93    | 289       | 48256.2    |
|  | NEGEQ.RGT102   | 1  | 2374.54  | 288       | 45881.7    |
|  | NEGEQ.RLT102   | 1  | 1374.83  | 287       | 44506.8    |
|  | RHP            | 1  | 1324.71  | 286       | 43182.1    |
|  | LTV.0          | 1  | 231.74   | 285       | 42950.4    |
|  | LTV.AGE3.t     | 1  | 24.63    | 284       | 42925.8    |
|  | PAY.INC.AGE4.t | 1  | 5280.55  | 283       | 37645.2    |
|  | UER.L2         | 1  | 55.42    | 282       | 37589.8    |
|  | AGE            | 1  | 11765.96 | 281       | 25823.8    |
|  | AGE.2          | 1  | 106.62   | 280       | 25717.2    |

**Summary Statistics for the Conditional Prepayment Rate Model and the Predictor Variables of the Streamline Refinanced Adjustable Rate Loans, All LTV Categories Model.**

\*\*\* Summary Statistics for data in: SRARM \*\*\*

|           |             |            |            |            |
|-----------|-------------|------------|------------|------------|
|           | CPR.10K.Adj | INT.RT.t   | R.Prime    | Yield.Diff |
| Min:      | 222.222222  | 5.00440000 | 0.8434222  | 0.04833333 |
| 1st Qu.:  | 1099.320667 | 6.37405833 | 1.1422065  | 0.51250000 |
| Mean:     | 1703.378886 | 6.99695079 | 1.2144499  | 0.88514358 |
| Median:   | 1439.918576 | 7.01571667 | 1.2013421  | 0.80583333 |
| 3rd Qu.:  | 1973.635382 | 7.63627500 | 1.3299568  | 1.09416667 |
| Max:      | 4805.768099 | 8.64970000 | 1.4353797  | 3.50333333 |
| Total N:  | 296.000000  | 296.000000 | 296.000000 | 296.000000 |
| NA's :    | 0.000000    | 0.000000   | 0.000000   | 0.000000   |
| Std Dev.: | 922.214956  | 0.84540061 | 0.1240907  | 0.70271998 |
| Skewness: | 1.399473    | 0.01162652 | 0.1279366  | 1.76440064 |

  

|           |            |             |            |              |
|-----------|------------|-------------|------------|--------------|
|           | FR30.PDiff | FR30.NDiff  | Tbond.Vol  | NEGEQ.RGT102 |
| Min:      | 0.0000000  | -2.44776667 | 0.1670511  | 0.00000000   |
| 1st Qu.:  | 0.0000000  | -1.23775833 | 0.2025893  | 0.06372075   |
| Mean:     | 0.1096446  | -0.76469451 | 0.3397253  | 0.20868354   |
| Median:   | 0.0000000  | -0.78728750 | 0.2876590  | 0.18661800   |
| 3rd Qu.:  | 0.0000000  | -0.06548542 | 0.4079095  | 0.32620600   |
| Max:      | 1.1501250  | 0.00000000  | 0.6376252  | 0.74806900   |
| Total N:  | 296.000000 | 296.000000  | 296.000000 | 296.000000   |
| NA's :    | 0.000000   | 0.000000    | 0.000000   | 0.000000     |
| Std Dev.: | 0.2465517  | 0.62298091  | 0.1453787  | 0.17493177   |
| Skewness: | 2.3974104  | 0.30862247  | 0.6318946  | 0.67645985   |

  

|           |              |            |            |            |
|-----------|--------------|------------|------------|------------|
|           | NEGEQ.RLT102 | RHP        | LTV.0      | LTV.AGE3.t |
| Min:      | 0.00000000   | 0.5810000  | 70.246600  | 0.000000   |
| 1st Qu.:  | 0.00000000   | 0.6005500  | 99.360650  | 64.164100  |
| Mean:     | 0.03179963   | 0.8712209  | 100.128525 | 63.653141  |
| Median:   | 0.00000000   | 0.8612000  | 99.643050  | 79.280679  |
| 3rd Qu.:  | 0.00000000   | 1.1442500  | 102.631475 | 87.836345  |
| Max:      | 0.47159900   | 1.2412000  | 112.409600 | 99.882850  |
| Total N:  | 296.000000   | 296.000000 | 296.000000 | 296.000000 |
| NA's :    | 0.000000     | 0.000000   | 0.000000   | 0.000000   |
| Std Dev.: | 0.08353853   | 0.2307652  | 5.329052   | 35.446757  |
| Skewness: | 3.16050379   | 0.1380781  | 2.856404   | 1.130666   |

  

|           |                |            |            |            |
|-----------|----------------|------------|------------|------------|
|           | PAY.INC.AGE4.t | UER.L2     | AGE        | AGE.2      |
| Min:      | 0.0000000      | 3.8031000  | 2.0000000  | 0.0000000  |
| 1st Qu.:  | 0.0000000      | 4.7441000  | 3.0000000  | 0.0000000  |
| Mean:     | 12.2822424     | 5.5478726  | 4.4358108  | 0.2263514  |
| Median:   | 17.5208291     | 5.4919500  | 4.0000000  | 0.0000000  |
| 3rd Qu.:  | 21.8898733     | 6.2931000  | 6.0000000  | 0.0000000  |
| Max:      | 28.7448894     | 7.6249000  | 10.0000000 | 1.0000000  |
| Total N:  | 296.000000     | 296.000000 | 296.000000 | 296.000000 |
| NA's :    | 0.000000       | 0.000000   | 0.000000   | 0.000000   |
| Std Dev.: | 10.8094600     | 0.9397573  | 2.1319049  | 0.4191778  |
| Skewness: | 0.1530749      | 0.2869728  | 0.6472183  | 1.3145267  |