Prediction with State Clustered SE

SCMTGBKR ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: SCMTGBKR No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 46.211

Method: IRLS Log-Likelihood: -1.1117e+06

Date: Sat, 22 Apr 2023 Deviance: 1.5398e+07

Time: 14:04:00 Pearson chi2: 1.54e+07

No. Iterations: 3 Pseudo R-squ. (CS): 0.5457

Covariance Type: cluster

======================================================================================

coef std err z P>|z| [0.025 0.975]

--------------------------------------------------------------------------------------

Intercept -2.4145 1.79e+08 -1.35e-08 1.000 -3.5e+08 3.5e+08

C(YEAR)[T.2004] 2.3218 4.43e+04 5.24e-05 1.000 -8.69e+04 8.69e+04

C(YEAR)[T.2005] 4.0577 8.87e+04 4.58e-05 1.000 -1.74e+05 1.74e+05

C(YEAR)[T.2006] 5.3384 1.33e+05 4.01e-05 1.000 -2.61e+05 2.61e+05

C(YEAR)[T.2007] 7.1029 1.77e+05 4.01e-05 1.000 -3.48e+05 3.48e+05

C(YEAR)[T.2008] 10.0004 2.22e+05 4.51e-05 1.000 -4.34e+05 4.35e+05

C(YEAR)[T.2009] 12.2610 2.66e+05 4.61e-05 1.000 -5.21e+05 5.21e+05

C(YEAR)[T.2010] 14.7059 3.1e+05 4.74e-05 1.000 -6.08e+05 6.08e+05

C(YEAR)[T.2011] 17.0937 3.55e+05 4.82e-05 1.000 -6.95e+05 6.95e+05

C(YEAR)[T.2012] 18.5987 3.99e+05 4.66e-05 1.000 -7.82e+05 7.82e+05

C(YEAR)[T.2013] 19.7510 4.43e+05 4.45e-05 1.000 -8.69e+05 8.69e+05

C(YEAR)[T.2014] 21.6646 4.88e+05 4.44e-05 1.000 -9.56e+05 9.56e+05

C(YEAR)[T.2015] 23.3695 5.32e+05 4.39e-05 1.000 -1.04e+06 1.04e+06

C(YEAR)[T.2016] 25.4989 5.76e+05 4.42e-05 1.000 -1.13e+06 1.13e+06

C(YEAR)[T.2017] 27.5003 6.21e+05 4.43e-05 1.000 -1.22e+06 1.22e+06

C(YEAR)[T.2018] 29.7538 6.65e+05 4.47e-05 1.000 -1.3e+06 1.3e+06

C(YEAR)[T.2019] 31.9062 7.09e+05 4.5e-05 1.000 -1.39e+06 1.39e+06

C(YEAR)[T.2020] 33.0697 7.54e+05 4.39e-05 1.000 -1.48e+06 1.48e+06

C(YEAR)[T.2021] 33.9681 7.98e+05 4.26e-05 1.000 -1.56e+06 1.56e+06

C(YEAR)[T.2022] 36.0760 8.42e+05 4.28e-05 1.000 -1.65e+06 1.65e+06

ASSTLTR 0.1300 0.019 6.894 0.000 0.093 0.167

AVG\_IR 0.0376 0.045 0.839 0.401 -0.050 0.126

BKPREMR -0.0989 0.048 -2.069 0.039 -0.193 -0.005

BRO -5.165e-06 2.58e-06 -2.002 0.045 -1.02e-05 -1.08e-07

BROR 0.0600 0.018 3.300 0.001 0.024 0.096

CERT 2.538e-05 9.15e-06 2.772 0.006 7.44e-06 4.33e-05

DELTA\_AR -0.0299 0.035 -0.857 0.391 -0.098 0.038

DEPR -0.1357 0.018 -7.556 0.000 -0.171 -0.101

EAMINTQR 0.0608 0.045 1.361 0.173 -0.027 0.148

EINTEXPR 0.6938 0.289 2.400 0.016 0.127 1.260

ELNATRR 0.1698 0.095 1.793 0.073 -0.016 0.355

EQTOTR 41.4516 477.526 0.087 0.931 -894.481 977.385

IDT1RWAJR 0.0011 0.001 0.829 0.407 -0.001 0.004

IGLSEC 3.702e-05 5.16e-05 0.717 0.473 -6.42e-05 0.000

ILNDOMQR -0.6439 0.139 -4.643 0.000 -0.916 -0.372

ILSR -0.4847 0.264 -1.838 0.066 -1.002 0.032

LIABR 41.7014 477.519 0.087 0.930 -894.219 977.621

LNATRES -0.0002 2.12e-05 -7.167 0.000 -0.000 -0.000

LNLSNETR -0.2276 0.018 -12.469 0.000 -0.263 -0.192

LNRECON5 -1.054e-06 1.99e-06 -0.530 0.596 -4.95e-06 2.84e-06

OREOTH 2.782e-05 1.36e-05 2.041 0.041 1.1e-06 5.45e-05

P3ASSETR -0.1804 0.080 -2.245 0.025 -0.338 -0.023

P9ASSET -7.447e-05 2.99e-05 -2.495 0.013 -0.000 -1.6e-05

RB2LNRESR -0.2250 0.312 -0.720 0.471 -0.837 0.387

RBC1AAJ -0.0060 0.002 -2.477 0.013 -0.011 -0.001

ROA 0.0495 0.084 0.592 0.554 -0.114 0.213

SCMTGBK 2.552e-05 4.53e-06 5.630 0.000 1.66e-05 3.44e-05

SCSNHAFR -0.4243 0.029 -14.831 0.000 -0.480 -0.368

SZ100 -2.2326 2.68e+08 -8.34e-09 1.000 -5.24e+08 5.24e+08

SZ100MP -0.1819 2.68e+08 -6.8e-10 1.000 -5.24e+08 5.24e+08

SZ100T5 -0.6846 0.374 -1.832 0.067 -1.417 0.048

SZ25 -1.9326 0.444 -4.355 0.000 -2.802 -1.063

VOLIABR 0.0565 0.013 4.514 0.000 0.032 0.081

YEAR -2.0631 4.43e+04 -4.65e-05 1.000 -8.69e+04 8.69e+04

total\_loans\_equity -0.0005 0.000 -1.244 0.213 -0.001 0.000

ALABAMA 0.2145 nan nan nan nan nan

ALASKA -1.6297 nan nan nan nan nan

ARIZONA 0.1870 nan nan nan nan nan

ARKANSAS 0.5318 nan nan nan nan nan

CALIFORNIA -0.5379 nan nan nan nan nan

COLORADO -0.1216 nan nan nan nan nan

CONNECTICUT -0.6193 nan nan nan nan nan

DELAWARE 0.4411 nan nan nan nan nan

FLORIDA 0.5674 nan nan nan nan nan

GEORGIA 0.9902 nan nan nan nan nan

HAWAII -6.3045 nan nan nan nan nan

IDAHO 1.0993 nan nan nan nan nan

ILLINOIS 0.7593 nan nan nan nan nan

INDIANA -0.3226 nan nan nan nan nan

IOWA -1.8332 nan nan nan nan nan

KANSAS 0.5960 nan nan nan nan nan

KENTUCKY -0.9711 nan nan nan nan nan

LOUISIANA 2.3818 nan nan nan nan nan

MAINE -1.8451 nan nan nan nan nan

MARYLAND 0.9888 nan nan nan nan nan

MASSACHUSETTS -2.3327 nan nan nan nan nan

MICHIGAN -2.1946 nan nan nan nan nan

MINNESOTA 0.9561 nan nan nan nan nan

MISSISSIPPI 1.2596 nan nan nan nan nan

MISSOURI -0.1496 nan nan nan nan nan

MONTANA 1.6258 nan nan nan nan nan

NEBRASKA -1.1557 nan nan nan nan nan

NEVADA 1.1203 nan nan nan nan nan

NEW\_HAMPSHIRE -1.4417 nan nan nan nan nan

NEW\_JERSEY 1.9518 nan nan nan nan nan

NEW\_MEXICO 1.6627 nan nan nan nan nan

NEW\_YORK -0.2270 nan nan nan nan nan

NORTH\_CAROLINA -0.0139 nan nan nan nan nan

NORTH\_DAKOTA 2.2549 nan nan nan nan nan

OHIO -0.8952 nan nan nan nan nan

OKLAHOMA 1.9093 nan nan nan nan nan

OREGON -0.5832 nan nan nan nan nan

PENNSYLVANIA -1.0052 nan nan nan nan nan

RHODE\_ISLAND -1.9744 nan nan nan nan nan

SOUTH\_CAROLINA 0.6963 nan nan nan nan nan

SOUTH\_DAKOTA 3.2138 nan nan nan nan nan

TENNESSEE 0.1438 nan nan nan nan nan

TEXAS 1.2506 nan nan nan nan nan

UTAH 1.6693 nan nan nan nan nan

VERMONT -0.3174 nan nan nan nan nan

VIRGINIA -1.5138 nan nan nan nan nan

WASHINGTON -0.2884 nan nan nan nan nan

WEST\_VIRGINIA -2.1616 nan nan nan nan nan

WISCONSIN 0.2316 nan nan nan nan nan

WYOMING -0.6781 nan nan nan nan nan

======================================================================================

Results for dependent variable: SCMTGBKR

MSE: 90.31718627230168

R-squared: -0.07110815095854361

LNATRES ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: LNATRES No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 1.5620e+07

Method: IRLS Log-Likelihood: -3.2334e+06

Date: Sat, 22 Apr 2023 Deviance: 5.2049e+12

Time: 14:04:23 Pearson chi2: 5.20e+12

No. Iterations: 3 Pseudo R-squ. (CS): 0.8727

Covariance Type: cluster

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coef std err z P>|z| [0.025 0.975]

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Intercept -387.1477 5.44e+12 -7.12e-11 1.000 -1.07e+13 1.07e+13

C(YEAR)[T.2004] 99.3556 1.19e+09 8.35e-08 1.000 -2.33e+09 2.33e+09

C(YEAR)[T.2005] 333.8919 2.38e+09 1.4e-07 1.000 -4.66e+09 4.66e+09

C(YEAR)[T.2006] 748.2053 3.57e+09 2.1e-07 1.000 -7e+09 7e+09

C(YEAR)[T.2007] 1139.5454 4.76e+09 2.39e-07 1.000 -9.33e+09 9.33e+09

C(YEAR)[T.2008] 1235.3868 5.95e+09 2.08e-07 1.000 -1.17e+10 1.17e+10

C(YEAR)[T.2009] 1413.7259 7.14e+09 1.98e-07 1.000 -1.4e+10 1.4e+10

C(YEAR)[T.2010] 1918.1759 8.33e+09 2.3e-07 1.000 -1.63e+10 1.63e+10

C(YEAR)[T.2011] 2343.7587 9.52e+09 2.46e-07 1.000 -1.87e+10 1.87e+10

C(YEAR)[T.2012] 2674.2436 1.07e+10 2.5e-07 1.000 -2.1e+10 2.1e+10

C(YEAR)[T.2013] 2972.6802 1.19e+10 2.5e-07 1.000 -2.33e+10 2.33e+10

C(YEAR)[T.2014] 3139.8322 1.31e+10 2.4e-07 1.000 -2.57e+10 2.57e+10

C(YEAR)[T.2015] 3321.0264 1.43e+10 2.33e-07 1.000 -2.8e+10 2.8e+10

C(YEAR)[T.2016] 3591.1301 1.55e+10 2.32e-07 1.000 -3.03e+10 3.03e+10

C(YEAR)[T.2017] 3867.1877 1.67e+10 2.32e-07 1.000 -3.27e+10 3.27e+10

C(YEAR)[T.2018] 4210.0777 1.78e+10 2.36e-07 1.000 -3.5e+10 3.5e+10

C(YEAR)[T.2019] 4617.4812 1.9e+10 2.43e-07 1.000 -3.73e+10 3.73e+10

C(YEAR)[T.2020] 6315.7936 2.02e+10 3.12e-07 1.000 -3.96e+10 3.96e+10

C(YEAR)[T.2021] 6706.7531 2.14e+10 3.13e-07 1.000 -4.2e+10 4.2e+10

C(YEAR)[T.2022] 6664.3501 2.26e+10 2.95e-07 1.000 -4.43e+10 4.43e+10

ASSTLTR 1.7947 2.913 0.616 0.538 -3.914 7.503

AVG\_IR 16.7059 172.909 0.097 0.923 -322.190 355.602

BKPREMR -90.2079 26.268 -3.434 0.001 -141.692 -38.724

BRO 0.0220 0.004 5.064 0.000 0.013 0.031

BROR -93.9069 16.051 -5.851 0.000 -125.365 -62.448

CERT -0.0117 0.003 -3.549 0.000 -0.018 -0.005

DELTA\_AR -15.8475 364.085 -0.044 0.965 -729.441 697.746

DEPR -9.8124 4.737 -2.071 0.038 -19.098 -0.527

EAMINTQR 72.5436 47.100 1.540 0.124 -19.771 164.859

EINTEXPR -355.1542 150.204 -2.364 0.018 -649.548 -60.760

ELNATRR 814.8728 167.136 4.876 0.000 487.292 1142.453

EQTOTR 5966.4125 3.85e+06 0.002 0.999 -7.53e+06 7.55e+06

IDT1RWAJR -0.4715 0.314 -1.503 0.133 -1.087 0.143

IGLSEC 0.1026 0.031 3.266 0.001 0.041 0.164

ILNDOMQR -195.1816 152.834 -1.277 0.202 -494.731 104.367

ILSR 681.6260 320.421 2.127 0.033 53.613 1309.639

LIABR 5951.0771 3.85e+06 0.002 0.999 -7.53e+06 7.55e+06

LNLSNETR 9.5599 9.361 1.021 0.307 -8.788 27.908

LNRECON5 0.0456 0.004 12.424 0.000 0.038 0.053

OREOTH 0.2677 0.056 4.750 0.000 0.157 0.378

P3ASSETR -4.3515 34.375 -0.127 0.899 -71.726 63.023

P9ASSET -0.0695 0.039 -1.776 0.076 -0.146 0.007

RB2LNRESR 3050.7359 295.509 10.324 0.000 2471.548 3629.923

RBC1AAJ -0.8825 0.851 -1.038 0.299 -2.550 0.785

ROA 78.0457 36.398 2.144 0.032 6.708 149.384

SCMTGBK 0.0203 0.002 9.561 0.000 0.016 0.024

SCMTGBKR -51.4562 7.914 -6.502 0.000 -66.968 -35.944

SCSNHAFR 10.5352 6.678 1.578 0.115 -2.554 23.624

SZ100 -1618.0327 3.05e+12 -5.3e-10 1.000 -5.99e+12 5.99e+12

SZ100MP 1230.8850 3.05e+12 4.03e-10 1.000 -5.99e+12 5.99e+12

SZ100T5 -2500.3752 271.840 -9.198 0.000 -3033.172 -1967.578

SZ25 -48.2763 137.640 -0.351 0.726 -318.046 221.493

VOLIABR 6.8076 4.799 1.419 0.156 -2.597 16.213

YEAR -295.9317 1.19e+09 -2.49e-07 1.000 -2.33e+09 2.33e+09

total\_loans\_equity -1.3259 0.695 -1.908 0.056 -2.688 0.036

ALABAMA -415.7019 nan nan nan nan nan

ALASKA 195.5376 nan nan nan nan nan

ARIZONA -923.6927 nan nan nan nan nan

ARKANSAS -50.8890 nan nan nan nan nan

CALIFORNIA 946.5316 nan nan nan nan nan

COLORADO -483.5745 nan nan nan nan nan

CONNECTICUT -221.8532 nan nan nan nan nan

DELAWARE -425.5959 nan nan nan nan nan

FLORIDA 160.1970 8.43e+08 1.9e-07 1.000 -1.65e+09 1.65e+09

GEORGIA -1128.3359 nan nan nan nan nan

HAWAII 9329.2925 nan nan nan nan nan

IDAHO -461.0617 1.45e+09 -3.18e-07 1.000 -2.84e+09 2.84e+09

ILLINOIS -19.8795 nan nan nan nan nan

INDIANA 706.0502 nan nan nan nan nan

IOWA -151.7906 nan nan nan nan nan

KANSAS -567.8762 nan nan nan nan nan

KENTUCKY -206.2881 nan nan nan nan nan

LOUISIANA -208.9040 nan nan nan nan nan

MAINE 536.1431 nan nan nan nan nan

MARYLAND -1048.7995 nan nan nan nan nan

MASSACHUSETTS 575.1510 nan nan nan nan nan

MICHIGAN 281.5820 1.45e+09 1.94e-07 1.000 -2.84e+09 2.84e+09

MINNESOTA -681.2094 nan nan nan nan nan

MISSISSIPPI -408.9763 nan nan nan nan nan

MISSOURI -378.1685 nan nan nan nan nan

MONTANA 8.3718 nan nan nan nan nan

NEBRASKA -308.2075 nan nan nan nan nan

NEVADA -884.8311 nan nan nan nan nan

NEW\_HAMPSHIRE -93.5739 8.43e+08 -1.11e-07 1.000 -1.65e+09 1.65e+09

NEW\_JERSEY 287.7368 nan nan nan nan nan

NEW\_MEXICO -418.7957 nan nan nan nan nan

NEW\_YORK 959.9938 nan nan nan nan nan

NORTH\_CAROLINA -814.2472 nan nan nan nan nan

NORTH\_DAKOTA -121.4788 nan nan nan nan nan

OHIO -21.7097 nan nan nan nan nan

OKLAHOMA -435.1756 nan nan nan nan nan

OREGON -362.9576 8.43e+08 -4.3e-07 1.000 -1.65e+09 1.65e+09

PENNSYLVANIA 280.4015 nan nan nan nan nan

RHODE\_ISLAND 1107.4736 nan nan nan nan nan

SOUTH\_CAROLINA -799.8396 nan nan nan nan nan

SOUTH\_DAKOTA 893.0598 nan nan nan nan nan

TENNESSEE -671.7343 nan nan nan nan nan

TEXAS -551.3335 nan nan nan nan nan

UTAH -1529.6281 8.43e+08 -1.82e-06 1.000 -1.65e+09 1.65e+09

VERMONT 336.6330 nan nan nan nan nan

VIRGINIA -737.4413 nan nan nan nan nan

WASHINGTON -689.8582 8.43e+08 -8.19e-07 1.000 -1.65e+09 1.65e+09

WEST\_VIRGINIA -116.4734 nan nan nan nan nan

WISCONSIN -192.4164 nan nan nan nan nan

WYOMING -459.0046 nan nan nan nan nan

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Results for dependent variable: LNATRES

MSE: 16338302.312217036

R-squared: 0.7677428230856234

RB2LNRESR ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: RB2LNRESR No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 0.039861

Method: IRLS Log-Likelihood: 64126.

Date: Sat, 22 Apr 2023 Deviance: 13282.

Time: 14:04:46 Pearson chi2: 1.33e+04

No. Iterations: 3 Pseudo R-squ. (CS): 0.5682

Covariance Type: cluster

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coef std err z P>|z| [0.025 0.975]

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Intercept 0.0004 4.62e+04 8.91e-09 1.000 -9.05e+04 9.05e+04

C(YEAR)[T.2004] -0.0036 65.734 -5.43e-05 1.000 -128.839 128.832

C(YEAR)[T.2005] 0.0042 131.476 3.17e-05 1.000 -257.684 257.692

C(YEAR)[T.2006] 0.0269 197.228 0.000 1.000 -386.533 386.586

C(YEAR)[T.2007] 0.0486 263.004 0.000 1.000 -515.430 515.527

C(YEAR)[T.2008] 0.0540 328.666 0.000 1.000 -644.120 644.228

C(YEAR)[T.2009] 0.0594 394.458 0.000 1.000 -773.063 773.182

C(YEAR)[T.2010] 0.0527 460.263 0.000 1.000 -902.046 902.151

C(YEAR)[T.2011] 0.0575 525.884 0.000 1.000 -1030.656 1030.771

C(YEAR)[T.2012] 0.0649 591.507 0.000 1.000 -1159.267 1159.396

C(YEAR)[T.2013] 0.0725 657.331 0.000 1.000 -1288.273 1288.418

C(YEAR)[T.2014] 0.0676 722.932 9.36e-05 1.000 -1416.852 1416.988

C(YEAR)[T.2015] 0.0707 788.552 8.97e-05 1.000 -1545.463 1545.604

C(YEAR)[T.2016] 0.0708 854.358 8.29e-05 1.000 -1674.440 1674.582

C(YEAR)[T.2017] 0.0702 920.162 7.63e-05 1.000 -1803.414 1803.554

C(YEAR)[T.2018] 0.0746 985.545 7.57e-05 1.000 -1931.559 1931.708

C(YEAR)[T.2019] 0.0868 1051.299 8.26e-05 1.000 -2060.421 2060.594

C(YEAR)[T.2020] -0.1938 1117.205 -0.000 1.000 -2189.876 2189.488

C(YEAR)[T.2021] -0.1898 1183.374 -0.000 1.000 -2319.560 2319.180

C(YEAR)[T.2022] -0.1668 1249.178 -0.000 1.000 -2448.511 2448.177

ASSTLTR -1.724e-05 0.000 -0.106 0.916 -0.000 0.000

AVG\_IR -0.0028 0.001 -2.476 0.013 -0.005 -0.001

BKPREMR 0.0026 0.002 1.540 0.123 -0.001 0.006

BRO -3.58e-07 4.9e-08 -7.306 0.000 -4.54e-07 -2.62e-07

BROR 0.0043 0.001 7.680 0.000 0.003 0.005

CERT 4.866e-08 1.58e-07 0.309 0.758 -2.6e-07 3.58e-07

DELTA\_AR 0.0012 0.001 0.986 0.324 -0.001 0.004

DEPR 0.0013 0.000 2.718 0.007 0.000 0.002

EAMINTQR -0.0002 0.001 -0.172 0.863 -0.002 0.002

EINTEXPR -0.0439 0.008 -5.212 0.000 -0.060 -0.027

ELNATRR 0.0281 0.004 6.405 0.000 0.020 0.037

EQTOTR 0.1606 1.117 0.144 0.886 -2.029 2.350

IDT1RWAJR 0.0001 9.14e-05 1.574 0.115 -3.52e-05 0.000

IGLSEC -2.706e-06 1e-06 -2.707 0.007 -4.66e-06 -7.46e-07

ILNDOMQR 0.0359 0.006 5.972 0.000 0.024 0.048

ILSR 0.0297 0.012 2.489 0.013 0.006 0.053

LIABR 0.1632 1.118 0.146 0.884 -2.027 2.354

LNATRES 7.785e-06 1.45e-06 5.371 0.000 4.94e-06 1.06e-05

LNLSNETR 0.0052 0.000 11.534 0.000 0.004 0.006

LNRECON5 -6.048e-08 6.25e-08 -0.967 0.333 -1.83e-07 6.21e-08

OREOTH -3.166e-07 4.68e-07 -0.677 0.499 -1.23e-06 6e-07

P3ASSETR -0.0005 0.002 -0.244 0.807 -0.005 0.004

P9ASSET -1.113e-06 6.99e-07 -1.593 0.111 -2.48e-06 2.57e-07

RBC1AAJ 8.693e-05 0.000 0.740 0.459 -0.000 0.000

ROA -3.658e-05 0.002 -0.023 0.982 -0.003 0.003

SCMTGBK -1.401e-07 3.36e-08 -4.165 0.000 -2.06e-07 -7.42e-08

SCMTGBKR -0.0002 0.000 -0.737 0.461 -0.001 0.000

SCSNHAFR 0.0007 0.001 1.267 0.205 -0.000 0.002

SZ100 -0.0193 8.55e+04 -2.26e-07 1.000 -1.68e+05 1.68e+05

SZ100MP 0.0197 8.55e+04 2.31e-07 1.000 -1.68e+05 1.68e+05

SZ100T5 -0.0118 0.008 -1.423 0.155 -0.028 0.004

SZ25 -0.0316 0.010 -3.248 0.001 -0.051 -0.013

VOLIABR -0.0011 0.000 -3.922 0.000 -0.002 -0.001

YEAR -0.0080 65.736 -0.000 1.000 -128.847 128.831

total\_loans\_equity 3.454e-05 1.27e-05 2.712 0.007 9.58e-06 5.95e-05

ALABAMA 0.0215 nan nan nan nan nan

ALASKA 0.0145 210.947 6.85e-05 1.000 -413.434 413.463

ARIZONA 0.0191 34.027 0.001 1.000 -66.672 66.710

ARKANSAS 0.0342 35.644 0.001 0.999 -69.826 69.895

CALIFORNIA 0.0679 95.660 0.001 0.999 -187.422 187.558

COLORADO -0.0011 nan nan nan nan nan

CONNECTICUT -0.0265 nan nan nan nan nan

DELAWARE 0.0637 nan nan nan nan nan

FLORIDA 0.0158 nan nan nan nan nan

GEORGIA 0.0642 95.207 0.001 0.999 -186.538 186.667

HAWAII -0.1757 nan nan nan nan nan

IDAHO 0.0606 nan nan nan nan nan

ILLINOIS -0.0140 36.010 -0.000 1.000 -70.593 70.565

INDIANA -0.0340 nan nan nan nan nan

IOWA 0.0405 95.795 0.000 1.000 -187.714 187.795

KANSAS 0.0478 210.840 0.000 1.000 -413.192 413.288

KENTUCKY -0.0003 210.724 -1.37e-06 1.000 -413.011 413.011

LOUISIANA -0.0655 35.466 -0.002 0.999 -69.577 69.446

MAINE -0.0817 36.038 -0.002 0.998 -70.714 70.551

MARYLAND -0.0913 nan nan nan nan nan

MASSACHUSETTS -0.1006 34.881 -0.003 0.998 -68.467 68.266

MICHIGAN 0.0088 35.392 0.000 1.000 -69.357 69.375

MINNESOTA 0.0638 35.878 0.002 0.999 -70.255 70.382

MISSISSIPPI -0.0009 nan nan nan nan nan

MISSOURI 0.0203 95.690 0.000 1.000 -187.528 187.569

MONTANA 0.0421 nan nan nan nan nan

NEBRASKA 0.0848 34.973 0.002 0.998 -68.461 68.631

NEVADA 0.0357 35.397 0.001 0.999 -69.342 69.413

NEW\_HAMPSHIRE -0.0691 36.710 -0.002 0.998 -72.020 71.882

NEW\_JERSEY -0.0659 nan nan nan nan nan

NEW\_MEXICO 0.0126 35.492 0.000 1.000 -69.551 69.577

NEW\_YORK -0.0649 nan nan nan nan nan

NORTH\_CAROLINA 0.0187 nan nan nan nan nan

NORTH\_DAKOTA 0.0578 37.163 0.002 0.999 -72.780 72.896

OHIO -0.0835 228.819 -0.000 1.000 -448.560 448.393

OKLAHOMA -0.0100 36.722 -0.000 1.000 -71.985 71.965

OREGON 0.0480 nan nan nan nan nan

PENNSYLVANIA -0.0674 210.979 -0.000 1.000 -413.578 413.443

RHODE\_ISLAND -0.0660 nan nan nan nan nan

SOUTH\_CAROLINA 0.0269 95.129 0.000 1.000 -186.423 186.477

SOUTH\_DAKOTA 0.0589 37.228 0.002 0.999 -72.906 73.024

TENNESSEE 0.0207 nan nan nan nan nan

TEXAS -0.0226 36.913 -0.001 1.000 -72.370 72.325

UTAH 0.0310 nan nan nan nan nan

VERMONT -0.0007 96.156 -7.06e-06 1.000 -188.464 188.462

VIRGINIA 0.0109 nan nan nan nan nan

WASHINGTON 0.0470 34.999 0.001 0.999 -68.550 68.644

WEST\_VIRGINIA -0.0559 35.801 -0.002 0.999 -70.225 70.113

WISCONSIN 0.0408 nan nan nan nan nan

WYOMING 0.0194 nan nan nan nan nan

======================================================================================

Results for dependent variable: RB2LNRESR

MSE: 0.042085644421514544

R-squared: 0.46252205450226125

RBC1AAJ ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: RBC1AAJ No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 83.183

Method: IRLS Log-Likelihood: -1.2097e+06

Date: Sat, 22 Apr 2023 Deviance: 2.7718e+07

Time: 14:05:09 Pearson chi2: 2.77e+07

No. Iterations: 3 Pseudo R-squ. (CS): 0.3775

Covariance Type: cluster

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coef std err z P>|z| [0.025 0.975]

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Intercept 1.6421 1.7e+08 9.65e-09 1.000 -3.34e+08 3.34e+08

C(YEAR)[T.2004] -1.3641 7.8e+04 -1.75e-05 1.000 -1.53e+05 1.53e+05

C(YEAR)[T.2005] -2.4965 1.56e+05 -1.6e-05 1.000 -3.06e+05 3.06e+05

C(YEAR)[T.2006] -3.8784 2.34e+05 -1.66e-05 1.000 -4.58e+05 4.58e+05

C(YEAR)[T.2007] -5.4218 3.12e+05 -1.74e-05 1.000 -6.11e+05 6.11e+05

C(YEAR)[T.2008] -6.8209 3.9e+05 -1.75e-05 1.000 -7.64e+05 7.64e+05

C(YEAR)[T.2009] -8.1929 4.68e+05 -1.75e-05 1.000 -9.17e+05 9.17e+05

C(YEAR)[T.2010] -9.6338 5.46e+05 -1.77e-05 1.000 -1.07e+06 1.07e+06

C(YEAR)[T.2011] -11.1062 6.24e+05 -1.78e-05 1.000 -1.22e+06 1.22e+06

C(YEAR)[T.2012] -12.5326 7.02e+05 -1.79e-05 1.000 -1.38e+06 1.38e+06

C(YEAR)[T.2013] -13.6103 7.8e+05 -1.75e-05 1.000 -1.53e+06 1.53e+06

C(YEAR)[T.2014] -15.0436 8.58e+05 -1.75e-05 1.000 -1.68e+06 1.68e+06

C(YEAR)[T.2015] -16.4331 9.36e+05 -1.76e-05 1.000 -1.83e+06 1.83e+06

C(YEAR)[T.2016] -17.7662 1.01e+06 -1.75e-05 1.000 -1.99e+06 1.99e+06

C(YEAR)[T.2017] -18.9478 1.09e+06 -1.74e-05 1.000 -2.14e+06 2.14e+06

C(YEAR)[T.2018] -19.9885 1.17e+06 -1.71e-05 1.000 -2.29e+06 2.29e+06

C(YEAR)[T.2019] -21.6923 1.25e+06 -1.74e-05 1.000 -2.45e+06 2.45e+06

C(YEAR)[T.2020] -22.6751 1.33e+06 -1.71e-05 1.000 -2.6e+06 2.6e+06

C(YEAR)[T.2021] -23.7102 1.4e+06 -1.69e-05 1.000 -2.75e+06 2.75e+06

C(YEAR)[T.2022] -23.2428 1.48e+06 -1.57e-05 1.000 -2.9e+06 2.9e+06

ASSTLTR 0.0015 0.002 0.943 0.346 -0.002 0.005

AVG\_IR 0.1245 0.060 2.080 0.038 0.007 0.242

BKPREMR 0.1653 0.095 1.742 0.082 -0.021 0.351

BRO 3.756e-07 2.36e-07 1.592 0.111 -8.68e-08 8.38e-07

BROR 0.0220 0.004 5.497 0.000 0.014 0.030

CERT 3.969e-06 1.72e-06 2.310 0.021 6.01e-07 7.34e-06

DELTA\_AR 0.0733 0.029 2.549 0.011 0.017 0.130

DEPR -0.0240 0.010 -2.514 0.012 -0.043 -0.005

EAMINTQR -0.4163 0.085 -4.894 0.000 -0.583 -0.250

EINTEXPR -0.3545 0.109 -3.266 0.001 -0.567 -0.142

ELNATRR -0.4833 0.145 -3.325 0.001 -0.768 -0.198

EQTOTR -24.8611 202.580 -0.123 0.902 -421.910 372.188

IDT1RWAJR 0.0098 0.008 1.165 0.244 -0.007 0.026

IGLSEC 1.827e-05 1.64e-05 1.113 0.266 -1.39e-05 5.04e-05

ILNDOMQR -0.0772 0.142 -0.544 0.586 -0.355 0.201

ILSR 0.1030 0.111 0.930 0.352 -0.114 0.320

LIABR -26.0243 202.547 -0.128 0.898 -423.009 370.960

LNATRES -4.7e-06 3.78e-06 -1.242 0.214 -1.21e-05 2.72e-06

LNLSNETR 0.0004 0.008 0.050 0.960 -0.016 0.016

LNRECON5 -6.986e-07 3.65e-07 -1.912 0.056 -1.41e-06 1.76e-08

OREOTH 1.128e-06 4.79e-06 0.236 0.814 -8.26e-06 1.05e-05

P3ASSETR -0.0442 0.018 -2.429 0.015 -0.080 -0.009

P9ASSET 3.391e-07 2.68e-06 0.126 0.899 -4.92e-06 5.59e-06

RB2LNRESR 0.1814 0.225 0.806 0.420 -0.260 0.622

ROA -0.5673 0.135 -4.188 0.000 -0.833 -0.302

SCMTGBK -2.667e-07 1.08e-07 -2.473 0.013 -4.78e-07 -5.54e-08

SCMTGBKR -0.0109 0.004 -2.655 0.008 -0.019 -0.003

SCSNHAFR 0.0047 0.005 0.991 0.322 -0.005 0.014

SZ100 0.6891 1.45e+07 4.74e-08 1.000 -2.85e+07 2.85e+07

SZ100MP 0.9530 1.45e+07 6.56e-08 1.000 -2.85e+07 2.85e+07

SZ100T5 0.0285 0.057 0.504 0.614 -0.082 0.140

SZ25 0.5995 0.290 2.067 0.039 0.031 1.168

VOLIABR 0.0011 0.004 0.297 0.766 -0.006 0.009

YEAR 1.2984 7.8e+04 1.67e-05 1.000 -1.53e+05 1.53e+05

total\_loans\_equity 0.0023 0.002 1.383 0.167 -0.001 0.006

ALABAMA 0.1419 4.01e+04 3.54e-06 1.000 -7.85e+04 7.85e+04

ALASKA -0.3476 4.01e+04 -8.68e-06 1.000 -7.85e+04 7.85e+04

ARIZONA -0.2969 4.65e+04 -6.39e-06 1.000 -9.12e+04 9.12e+04

ARKANSAS -0.1285 4.65e+04 -2.76e-06 1.000 -9.11e+04 9.11e+04

CALIFORNIA -0.0720 4.22e+04 -1.71e-06 1.000 -8.26e+04 8.26e+04

COLORADO -0.0198 4.01e+04 -4.93e-07 1.000 -7.86e+04 7.86e+04

CONNECTICUT -0.4920 2.19e+04 -2.25e-05 1.000 -4.29e+04 4.29e+04

DELAWARE -0.2674 4e+04 -6.68e-06 1.000 -7.85e+04 7.85e+04

FLORIDA -0.1081 3.24e+04 -3.34e-06 1.000 -6.34e+04 6.34e+04

GEORGIA 0.3654 4.21e+04 8.67e-06 1.000 -8.26e+04 8.26e+04

HAWAII 0.3189 3.23e+04 9.88e-06 1.000 -6.33e+04 6.33e+04

IDAHO 2.0165 4.01e+04 5.03e-05 1.000 -7.85e+04 7.86e+04

ILLINOIS -0.0475 4e+04 -1.19e-06 1.000 -7.83e+04 7.83e+04

INDIANA 0.4084 4.65e+04 8.78e-06 1.000 -9.12e+04 9.12e+04

IOWA -0.0034 2.57e+04 -1.31e-07 1.000 -5.04e+04 5.04e+04

KANSAS -0.0789 3.23e+04 -2.44e-06 1.000 -6.33e+04 6.33e+04

KENTUCKY -0.2534 4e+04 -6.33e-06 1.000 -7.85e+04 7.85e+04

LOUISIANA 0.0673 4e+04 1.68e-06 1.000 -7.85e+04 7.85e+04

MAINE -0.1876 2.19e+04 -8.55e-06 1.000 -4.3e+04 4.3e+04

MARYLAND 0.0022 2.56e+04 8.49e-08 1.000 -5.02e+04 5.02e+04

MASSACHUSETTS -0.3700 4e+04 -9.24e-06 1.000 -7.85e+04 7.85e+04

MICHIGAN -0.1243 4e+04 -3.1e-06 1.000 -7.85e+04 7.85e+04

MINNESOTA 0.1114 4.65e+04 2.4e-06 1.000 -9.12e+04 9.12e+04

MISSISSIPPI 0.4000 3.22e+04 1.24e-05 1.000 -6.32e+04 6.32e+04

MISSOURI 0.1000 2.58e+04 3.87e-06 1.000 -5.06e+04 5.06e+04

MONTANA 0.1726 4.01e+04 4.31e-06 1.000 -7.85e+04 7.85e+04

NEBRASKA 0.0416 4e+04 1.04e-06 1.000 -7.85e+04 7.85e+04

NEVADA 1.4838 3.24e+04 4.58e-05 1.000 -6.35e+04 6.35e+04

NEW\_HAMPSHIRE -0.4510 4e+04 -1.13e-05 1.000 -7.85e+04 7.85e+04

NEW\_JERSEY -0.1024 3.5e+04 -2.93e-06 1.000 -6.85e+04 6.85e+04

NEW\_MEXICO 0.3293 4.65e+04 7.08e-06 1.000 -9.12e+04 9.12e+04

NEW\_YORK -0.2305 4.01e+04 -5.75e-06 1.000 -7.85e+04 7.85e+04

NORTH\_CAROLINA -0.0927 4.01e+04 -2.31e-06 1.000 -7.86e+04 7.86e+04

NORTH\_DAKOTA 0.2877 4.66e+04 6.18e-06 1.000 -9.12e+04 9.12e+04

OHIO -0.2027 3.49e+04 -5.81e-06 1.000 -6.83e+04 6.83e+04

OKLAHOMA 0.2527 4.01e+04 6.31e-06 1.000 -7.86e+04 7.86e+04

OREGON -0.1234 4.65e+04 -2.65e-06 1.000 -9.12e+04 9.12e+04

PENNSYLVANIA -0.0936 4.01e+04 -2.34e-06 1.000 -7.85e+04 7.85e+04

RHODE\_ISLAND -1.2015 4e+04 -3e-05 1.000 -7.85e+04 7.85e+04

SOUTH\_CAROLINA -0.2990 3.5e+04 -8.54e-06 1.000 -6.86e+04 6.86e+04

SOUTH\_DAKOTA 0.4276 4e+04 1.07e-05 1.000 -7.84e+04 7.85e+04

TENNESSEE -0.0191 4.01e+04 -4.78e-07 1.000 -7.85e+04 7.85e+04

TEXAS 0.1186 4.01e+04 2.96e-06 1.000 -7.86e+04 7.86e+04

UTAH -0.3210 3.23e+04 -9.94e-06 1.000 -6.33e+04 6.33e+04

VERMONT -0.1977 4.22e+04 -4.68e-06 1.000 -8.28e+04 8.28e+04

VIRGINIA 0.1291 4.65e+04 2.78e-06 1.000 -9.12e+04 9.12e+04

WASHINGTON 0.2222 4.01e+04 5.55e-06 1.000 -7.85e+04 7.85e+04

WEST\_VIRGINIA 0.0183 3.23e+04 5.67e-07 1.000 -6.33e+04 6.33e+04

WISCONSIN -0.0792 3.23e+04 -2.45e-06 1.000 -6.33e+04 6.33e+04

WYOMING 0.4376 3.5e+04 1.25e-05 1.000 -6.86e+04 6.86e+04

======================================================================================

Results for dependent variable: RBC1AAJ

MSE: 106.83138030465908

R-squared: -0.5959282074004162

ILNDOMQR ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: ILNDOMQR No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 0.30910

Method: IRLS Log-Likelihood: -2.7723e+05

Date: Sat, 22 Apr 2023 Deviance: 1.0300e+05

Time: 14:05:32 Pearson chi2: 1.03e+05

No. Iterations: 3 Pseudo R-squ. (CS): 0.9896

Covariance Type: cluster

======================================================================================

coef std err z P>|z| [0.025 0.975]

--------------------------------------------------------------------------------------

Intercept 0.0202 1.92e+07 1.05e-09 1.000 -3.77e+07 3.77e+07

C(YEAR)[T.2004] -0.0740 2483.244 -2.98e-05 1.000 -4867.142 4866.995

C(YEAR)[T.2005] -0.0991 4966.400 -2e-05 1.000 -9734.065 9733.866

C(YEAR)[T.2006] -0.1042 7449.667 -1.4e-05 1.000 -1.46e+04 1.46e+04

C(YEAR)[T.2007] -0.1810 9932.871 -1.82e-05 1.000 -1.95e+04 1.95e+04

C(YEAR)[T.2008] -0.2732 1.24e+04 -2.2e-05 1.000 -2.43e+04 2.43e+04

C(YEAR)[T.2009] -0.0696 1.49e+04 -4.67e-06 1.000 -2.92e+04 2.92e+04

C(YEAR)[T.2010] -0.0499 1.74e+04 -2.87e-06 1.000 -3.41e+04 3.41e+04

C(YEAR)[T.2011] -0.0071 1.99e+04 -3.59e-07 1.000 -3.89e+04 3.89e+04

C(YEAR)[T.2012] -0.0420 2.23e+04 -1.88e-06 1.000 -4.38e+04 4.38e+04

C(YEAR)[T.2013] -0.1492 2.48e+04 -6.01e-06 1.000 -4.87e+04 4.87e+04

C(YEAR)[T.2014] -0.2049 2.73e+04 -7.5e-06 1.000 -5.35e+04 5.35e+04

C(YEAR)[T.2015] -0.2678 2.98e+04 -8.99e-06 1.000 -5.84e+04 5.84e+04

C(YEAR)[T.2016] -0.3157 3.23e+04 -9.78e-06 1.000 -6.33e+04 6.33e+04

C(YEAR)[T.2017] -0.3638 3.48e+04 -1.05e-05 1.000 -6.81e+04 6.81e+04

C(YEAR)[T.2018] -0.3952 3.72e+04 -1.06e-05 1.000 -7.3e+04 7.3e+04

C(YEAR)[T.2019] -0.4257 3.97e+04 -1.07e-05 1.000 -7.79e+04 7.79e+04

C(YEAR)[T.2020] -0.2014 4.22e+04 -4.77e-06 1.000 -8.27e+04 8.27e+04

C(YEAR)[T.2021] -0.0134 4.47e+04 -2.99e-07 1.000 -8.76e+04 8.76e+04

C(YEAR)[T.2022] -0.2079 4.72e+04 -4.41e-06 1.000 -9.25e+04 9.25e+04

ASSTLTR -0.0025 0.000 -5.598 0.000 -0.003 -0.002

AVG\_IR 0.1432 0.008 18.459 0.000 0.128 0.158

BKPREMR 0.0406 0.008 5.399 0.000 0.026 0.055

BRO -4.332e-07 1.43e-07 -3.037 0.002 -7.13e-07 -1.54e-07

BROR 0.0031 0.001 2.504 0.012 0.001 0.006

CERT -2.461e-06 6.03e-07 -4.083 0.000 -3.64e-06 -1.28e-06

DELTA\_AR 0.0081 0.007 1.210 0.226 -0.005 0.021

DEPR 0.0088 0.001 8.610 0.000 0.007 0.011

EAMINTQR 0.0448 0.019 2.337 0.019 0.007 0.082

EINTEXPR 0.3358 0.023 14.581 0.000 0.291 0.381

ELNATRR 0.1377 0.049 2.837 0.005 0.043 0.233

EQTOTR 0.3309 13.289 0.025 0.980 -25.716 26.378

IDT1RWAJR -0.0002 0.000 -1.440 0.150 -0.000 7.33e-05

IGLSEC -1.03e-05 3.64e-06 -2.830 0.005 -1.74e-05 -3.16e-06

ILSR -0.6082 0.030 -20.102 0.000 -0.667 -0.549

LIABR 0.3236 13.288 0.024 0.981 -25.721 26.368

LNATRES -3.862e-06 2.74e-06 -1.407 0.159 -9.24e-06 1.52e-06

LNLSNETR 0.0520 0.001 69.335 0.000 0.051 0.053

LNRECON5 3.983e-07 2.13e-07 1.871 0.061 -1.89e-08 8.16e-07

OREOTH -4.912e-06 3.04e-06 -1.618 0.106 -1.09e-05 1.04e-06

P3ASSETR 0.0740 0.016 4.762 0.000 0.044 0.105

P9ASSET 4.79e-06 2.65e-06 1.804 0.071 -4.13e-07 9.99e-06

RB2LNRESR 0.2788 0.037 7.530 0.000 0.206 0.351

RBC1AAJ -0.0003 0.001 -0.516 0.606 -0.001 0.001

ROA 0.1269 0.027 4.714 0.000 0.074 0.180

SCMTGBK -8.7e-08 6.58e-08 -1.323 0.186 -2.16e-07 4.19e-08

SCMTGBKR -0.0043 0.001 -4.957 0.000 -0.006 -0.003

SCSNHAFR -0.0012 0.002 -0.684 0.494 -0.005 0.002

SZ100 0.1518 2.42e+07 6.27e-09 1.000 -4.75e+07 4.75e+07

SZ100MP -0.1316 2.42e+07 -5.43e-09 1.000 -4.75e+07 4.75e+07

SZ100T5 0.1331 0.014 9.617 0.000 0.106 0.160

SZ25 0.0970 0.025 3.878 0.000 0.048 0.146

VOLIABR -0.0037 0.001 -3.587 0.000 -0.006 -0.002

YEAR -0.0165 2483.218 -6.65e-06 1.000 -4867.034 4867.001

total\_loans\_equity -0.0002 8.65e-05 -2.471 0.013 -0.000 -4.43e-05

ALABAMA 0.1077 5905.804 1.82e-05 1.000 -1.16e+04 1.16e+04

ALASKA 0.4471 5904.307 7.57e-05 1.000 -1.16e+04 1.16e+04

ARIZONA 0.2913 5905.630 4.93e-05 1.000 -1.16e+04 1.16e+04

ARKANSAS 0.0387 5905.120 6.55e-06 1.000 -1.16e+04 1.16e+04

CALIFORNIA 0.2116 8753.881 2.42e-05 1.000 -1.72e+04 1.72e+04

COLORADO 0.1644 8554.678 1.92e-05 1.000 -1.68e+04 1.68e+04

CONNECTICUT -0.3375 nan nan nan nan nan

DELAWARE -0.1377 5905.079 -2.33e-05 1.000 -1.16e+04 1.16e+04

FLORIDA -0.0866 5905.586 -1.47e-05 1.000 -1.16e+04 1.16e+04

GEORGIA 0.1333 6190.663 2.15e-05 1.000 -1.21e+04 1.21e+04

HAWAII -0.0061 5905.478 -1.03e-06 1.000 -1.16e+04 1.16e+04

IDAHO 0.1872 5905.098 3.17e-05 1.000 -1.16e+04 1.16e+04

ILLINOIS -0.2689 8555.041 -3.14e-05 1.000 -1.68e+04 1.68e+04

INDIANA -0.1733 5905.520 -2.93e-05 1.000 -1.16e+04 1.16e+04

IOWA -0.3472 6190.971 -5.61e-05 1.000 -1.21e+04 1.21e+04

KANSAS -0.0649 5905.617 -1.1e-05 1.000 -1.16e+04 1.16e+04

KENTUCKY -0.0503 5905.073 -8.52e-06 1.000 -1.16e+04 1.16e+04

LOUISIANA 0.1908 8554.520 2.23e-05 1.000 -1.68e+04 1.68e+04

MAINE -0.2888 8554.487 -3.38e-05 1.000 -1.68e+04 1.68e+04

MARYLAND -0.1244 6191.137 -2.01e-05 1.000 -1.21e+04 1.21e+04

MASSACHUSETTS -0.4360 8554.539 -5.1e-05 1.000 -1.68e+04 1.68e+04

MICHIGAN -0.0276 5905.362 -4.68e-06 1.000 -1.16e+04 1.16e+04

MINNESOTA -0.1126 5905.492 -1.91e-05 1.000 -1.16e+04 1.16e+04

MISSISSIPPI 0.1269 nan nan nan nan nan

MISSOURI -0.1579 8754.634 -1.8e-05 1.000 -1.72e+04 1.72e+04

MONTANA 0.2371 5905.706 4.01e-05 1.000 -1.16e+04 1.16e+04

NEBRASKA -0.2025 5905.928 -3.43e-05 1.000 -1.16e+04 1.16e+04

NEVADA 0.4038 8554.367 4.72e-05 1.000 -1.68e+04 1.68e+04

NEW\_HAMPSHIRE -0.3695 5905.279 -6.26e-05 1.000 -1.16e+04 1.16e+04

NEW\_JERSEY -0.2749 8754.926 -3.14e-05 1.000 -1.72e+04 1.72e+04

NEW\_MEXICO 0.3852 5904.892 6.52e-05 1.000 -1.16e+04 1.16e+04

NEW\_YORK -0.1482 5905.162 -2.51e-05 1.000 -1.16e+04 1.16e+04

NORTH\_CAROLINA -0.1565 5905.533 -2.65e-05 1.000 -1.16e+04 1.16e+04

NORTH\_DAKOTA -0.1823 nan nan nan nan nan

OHIO -0.2285 8754.874 -2.61e-05 1.000 -1.72e+04 1.72e+04

OKLAHOMA 0.1672 8554.610 1.95e-05 1.000 -1.68e+04 1.68e+04

OREGON 0.4229 8554.794 4.94e-05 1.000 -1.68e+04 1.68e+04

PENNSYLVANIA -0.3069 8554.511 -3.59e-05 1.000 -1.68e+04 1.68e+04

RHODE\_ISLAND 0.0038 5905.341 6.42e-07 1.000 -1.16e+04 1.16e+04

SOUTH\_CAROLINA -0.0074 1.07e+04 -6.89e-07 1.000 -2.1e+04 2.1e+04

SOUTH\_DAKOTA 0.2944 5905.246 4.98e-05 1.000 -1.16e+04 1.16e+04

TENNESSEE 0.0289 5905.612 4.9e-06 1.000 -1.16e+04 1.16e+04

TEXAS 0.1914 8554.953 2.24e-05 1.000 -1.68e+04 1.68e+04

UTAH 0.9180 nan nan nan nan nan

VERMONT -0.2761 120.839 -0.002 0.998 -237.116 236.564

VIRGINIA -0.1096 5905.531 -1.86e-05 1.000 -1.16e+04 1.16e+04

WASHINGTON 0.2857 5904.771 4.84e-05 1.000 -1.16e+04 1.16e+04

WEST\_VIRGINIA -0.0799 5905.294 -1.35e-05 1.000 -1.16e+04 1.16e+04

WISCONSIN -0.3110 5905.359 -5.27e-05 1.000 -1.16e+04 1.16e+04

WYOMING 0.0563 135.880 0.000 1.000 -266.263 266.376

======================================================================================

Results for dependent variable: ILNDOMQR

MSE: 4.379250469188791

R-squared: -1.7133480171275126

LNLSNETR ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: LNLSNETR No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 54.492

Method: IRLS Log-Likelihood: -1.1392e+06

Date: Sat, 22 Apr 2023 Deviance: 1.8158e+07

Time: 14:08:15 Pearson chi2: 1.82e+07

No. Iterations: 3 Pseudo R-squ. (CS): 0.9693

Covariance Type: cluster

======================================================================================

coef std err z P>|z| [0.025 0.975]

--------------------------------------------------------------------------------------

Intercept 0.8975 3.03e+08 2.97e-09 1.000 -5.93e+08 5.93e+08

C(YEAR)[T.2004] 1.2180 2.39e+04 5.09e-05 1.000 -4.69e+04 4.69e+04

C(YEAR)[T.2005] 0.0331 4.78e+04 6.92e-07 1.000 -9.37e+04 9.37e+04

C(YEAR)[T.2006] -2.6507 7.17e+04 -3.7e-05 1.000 -1.41e+05 1.41e+05

C(YEAR)[T.2007] -4.4509 9.56e+04 -4.65e-05 1.000 -1.87e+05 1.87e+05

C(YEAR)[T.2008] -3.6571 1.2e+05 -3.06e-05 1.000 -2.34e+05 2.34e+05

C(YEAR)[T.2009] -5.9722 1.43e+05 -4.16e-05 1.000 -2.81e+05 2.81e+05

C(YEAR)[T.2010] -6.2541 1.67e+05 -3.74e-05 1.000 -3.28e+05 3.28e+05

C(YEAR)[T.2011] -7.3971 1.91e+05 -3.87e-05 1.000 -3.75e+05 3.75e+05

C(YEAR)[T.2012] -7.8040 2.15e+05 -3.63e-05 1.000 -4.22e+05 4.22e+05

C(YEAR)[T.2013] -7.5073 2.39e+05 -3.14e-05 1.000 -4.69e+05 4.69e+05

C(YEAR)[T.2014] -7.3640 2.63e+05 -2.8e-05 1.000 -5.16e+05 5.16e+05

C(YEAR)[T.2015] -7.5041 2.87e+05 -2.62e-05 1.000 -5.62e+05 5.62e+05

C(YEAR)[T.2016] -7.7702 3.11e+05 -2.5e-05 1.000 -6.09e+05 6.09e+05

C(YEAR)[T.2017] -8.1662 3.35e+05 -2.44e-05 1.000 -6.56e+05 6.56e+05

C(YEAR)[T.2018] -8.8327 3.59e+05 -2.46e-05 1.000 -7.03e+05 7.03e+05

C(YEAR)[T.2019] -10.2554 3.83e+05 -2.68e-05 1.000 -7.5e+05 7.5e+05

C(YEAR)[T.2020] -11.9191 4.06e+05 -2.93e-05 1.000 -7.97e+05 7.97e+05

C(YEAR)[T.2021] -16.3549 4.3e+05 -3.8e-05 1.000 -8.44e+05 8.44e+05

C(YEAR)[T.2022] -15.2378 4.54e+05 -3.35e-05 1.000 -8.9e+05 8.9e+05

ASSTLTR 0.0039 0.010 0.402 0.688 -0.015 0.023

AVG\_IR -1.5694 0.095 -16.592 0.000 -1.755 -1.384

BKPREMR 0.1042 0.069 1.520 0.129 -0.030 0.239

BRO 4.102e-06 1.97e-06 2.080 0.038 2.36e-07 7.97e-06

BROR 0.0248 0.019 1.285 0.199 -0.013 0.063

CERT 8.375e-05 1.25e-05 6.713 0.000 5.93e-05 0.000

DELTA\_AR 0.1744 0.080 2.177 0.029 0.017 0.331

DEPR -0.1676 0.023 -7.222 0.000 -0.213 -0.122

EAMINTQR -0.2586 0.090 -2.861 0.004 -0.436 -0.081

EINTEXPR 0.1661 0.380 0.437 0.662 -0.578 0.911

ELNATRR -0.8470 0.343 -2.473 0.013 -1.518 -0.176

EQTOTR -27.4538 1897.772 -0.014 0.988 -3747.019 3692.112

IDT1RWAJR -0.0141 0.012 -1.209 0.227 -0.037 0.009

IGLSEC 2.29e-05 4.09e-05 0.560 0.576 -5.73e-05 0.000

ILNDOMQR 9.1623 0.518 17.690 0.000 8.147 10.177

ILSR 5.5327 0.497 11.124 0.000 4.558 6.508

LIABR -27.1941 1897.770 -0.014 0.989 -3746.755 3692.367

LNATRES 3.335e-05 3.06e-05 1.090 0.276 -2.66e-05 9.33e-05

LNRECON5 1.619e-06 2.97e-06 0.546 0.585 -4.19e-06 7.43e-06

OREOTH -5.366e-05 2.97e-05 -1.805 0.071 -0.000 4.61e-06

P3ASSETR -0.2481 0.131 -1.890 0.059 -0.505 0.009

P9ASSET -2.98e-05 2.48e-05 -1.200 0.230 -7.85e-05 1.89e-05

RB2LNRESR 7.1419 0.853 8.375 0.000 5.470 8.813

RBC1AAJ 0.0003 0.005 0.049 0.961 -0.010 0.011

ROA -0.6106 0.083 -7.350 0.000 -0.773 -0.448

SCMTGBK 8.335e-07 7.85e-07 1.061 0.289 -7.06e-07 2.37e-06

SCMTGBKR -0.2684 0.024 -11.314 0.000 -0.315 -0.222

SCSNHAFR -0.4115 0.041 -10.143 0.000 -0.491 -0.332

SZ100 -1.9221 3.51e+08 -5.48e-09 1.000 -6.87e+08 6.87e+08

SZ100MP 2.8196 3.51e+08 8.04e-09 1.000 -6.87e+08 6.87e+08

SZ100T5 -2.0606 0.203 -10.141 0.000 -2.459 -1.662

SZ25 -1.9201 0.302 -6.349 0.000 -2.513 -1.327

VOLIABR 0.0627 0.015 4.157 0.000 0.033 0.092

YEAR 1.3749 2.39e+04 5.75e-05 1.000 -4.69e+04 4.69e+04

total\_loans\_equity 0.0088 0.006 1.544 0.123 -0.002 0.020

ALABAMA -4.0554 6.14e+05 -6.61e-06 1.000 -1.2e+06 1.2e+06

ALASKA -6.4248 5.12e+05 -1.25e-05 1.000 -1e+06 1e+06

ARIZONA -2.6885 5.12e+05 -5.25e-06 1.000 -1e+06 1e+06

ARKANSAS -2.0206 5.12e+05 -3.94e-06 1.000 -1e+06 1e+06

CALIFORNIA -1.8198 5.85e+05 -3.11e-06 1.000 -1.15e+06 1.15e+06

COLORADO -2.4939 5.12e+05 -4.87e-06 1.000 -1e+06 1e+06

CONNECTICUT 5.3151 5.12e+05 1.04e-05 1.000 -1e+06 1e+06

DELAWARE 3.1417 5.12e+05 6.13e-06 1.000 -1e+06 1e+06

FLORIDA -0.3717 6.14e+05 -6.05e-07 1.000 -1.2e+06 1.2e+06

GEORGIA -3.0444 5.85e+05 -5.21e-06 1.000 -1.15e+06 1.15e+06

HAWAII 2.8422 6.14e+05 4.63e-06 1.000 -1.2e+06 1.2e+06

IDAHO -1.7614 6.14e+05 -2.87e-06 1.000 -1.2e+06 1.2e+06

ILLINOIS 1.7972 5.12e+05 3.51e-06 1.000 -1e+06 1e+06

INDIANA 2.5601 6.14e+05 4.17e-06 1.000 -1.2e+06 1.2e+06

IOWA 2.1892 6.75e+05 3.24e-06 1.000 -1.32e+06 1.32e+06

KANSAS -0.4356 6.14e+05 -7.09e-07 1.000 -1.2e+06 1.2e+06

KENTUCKY 0.3937 5.12e+05 7.68e-07 1.000 -1e+06 1e+06

LOUISIANA -1.4725 5.12e+05 -2.87e-06 1.000 -1e+06 1e+06

MAINE 7.2323 6.14e+05 1.18e-05 1.000 -1.2e+06 1.2e+06

MARYLAND 3.4133 5.85e+05 5.84e-06 1.000 -1.15e+06 1.15e+06

MASSACHUSETTS 4.9229 7.01e+05 7.02e-06 1.000 -1.37e+06 1.37e+06

MICHIGAN -0.3817 6.14e+05 -6.22e-07 1.000 -1.2e+06 1.2e+06

MINNESOTA 1.2800 7.01e+05 1.83e-06 1.000 -1.37e+06 1.37e+06

MISSISSIPPI -2.9787 5.12e+05 -5.81e-06 1.000 -1e+06 1e+06

MISSOURI 1.4774 6.75e+05 2.19e-06 1.000 -1.32e+06 1.32e+06

MONTANA -2.0100 6.14e+05 -3.27e-06 1.000 -1.2e+06 1.2e+06

NEBRASKA 1.3062 5.12e+05 2.55e-06 1.000 -1e+06 1e+06

NEVADA -4.6564 6.14e+05 -7.58e-06 1.000 -1.2e+06 1.2e+06

NEW\_HAMPSHIRE 6.5664 5.12e+05 1.28e-05 1.000 -1e+06 1e+06

NEW\_JERSEY 3.5098 4.77e+05 7.36e-06 1.000 -9.34e+05 9.34e+05

NEW\_MEXICO -6.9851 5.12e+05 -1.36e-05 1.000 -1e+06 1e+06

NEW\_YORK 1.6239 5.12e+05 3.17e-06 1.000 -1e+06 1e+06

NORTH\_CAROLINA 1.7391 7.01e+05 2.48e-06 1.000 -1.37e+06 1.37e+06

NORTH\_DAKOTA 2.2989 5.12e+05 4.49e-06 1.000 -1e+06 1e+06

OHIO 4.0321 4.77e+05 8.46e-06 1.000 -9.34e+05 9.34e+05

OKLAHOMA -1.9752 6.14e+05 -3.22e-06 1.000 -1.2e+06 1.2e+06

OREGON -2.8285 5.12e+05 -5.52e-06 1.000 -1e+06 1e+06

PENNSYLVANIA 3.7589 6.14e+05 6.12e-06 1.000 -1.2e+06 1.2e+06

RHODE\_ISLAND 0.2310 5.12e+05 4.51e-07 1.000 -1e+06 1e+06

SOUTH\_CAROLINA -1.3709 5.85e+05 -2.35e-06 1.000 -1.15e+06 1.15e+06

SOUTH\_DAKOTA -2.3812 6.14e+05 -3.88e-06 1.000 -1.2e+06 1.2e+06

TENNESSEE -1.5172 6.14e+05 -2.47e-06 1.000 -1.2e+06 1.2e+06

TEXAS -3.6590 6.14e+05 -5.96e-06 1.000 -1.2e+06 1.2e+06

UTAH -10.3744 6.14e+05 -1.69e-05 1.000 -1.2e+06 1.2e+06

VERMONT 6.0752 7.55e+05 8.04e-06 1.000 -1.48e+06 1.48e+06

VIRGINIA 0.8969 5.12e+05 1.75e-06 1.000 -1e+06 1e+06

WASHINGTON -1.5068 5.12e+05 -2.94e-06 1.000 -1e+06 1e+06

WEST\_VIRGINIA 1.2340 7.01e+05 1.76e-06 1.000 -1.37e+06 1.37e+06

WISCONSIN 3.3543 5.12e+05 6.55e-06 1.000 -1e+06 1e+06

WYOMING -3.0805 7.55e+05 -4.08e-06 1.000 -1.48e+06 1.48e+06

======================================================================================

Results for dependent variable: LNLSNETR

MSE: 125.06466864043108

R-squared: 0.5205762164157468

ASSTLTR ~ C(YEAR) + AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: ASSTLTR No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 196.10

Method: IRLS Log-Likelihood: -1.3526e+06

Date: Sat, 22 Apr 2023 Deviance: 6.5344e+07

Time: 14:08:39 Pearson chi2: 6.53e+07

No. Iterations: 3 Pseudo R-squ. (CS): 0.4917

Covariance Type: cluster

======================================================================================

coef std err z P>|z| [0.025 0.975]

--------------------------------------------------------------------------------------

Intercept 2.5606 1.63e+09 1.57e-09 1.000 -3.19e+09 3.19e+09

C(YEAR)[T.2004] -2.5226 1.35e+05 -1.87e-05 1.000 -2.64e+05 2.64e+05

C(YEAR)[T.2005] -6.2148 2.7e+05 -2.3e-05 1.000 -5.29e+05 5.29e+05

C(YEAR)[T.2006] -8.5531 4.05e+05 -2.11e-05 1.000 -7.93e+05 7.93e+05

C(YEAR)[T.2007] -11.1670 5.4e+05 -2.07e-05 1.000 -1.06e+06 1.06e+06

C(YEAR)[T.2008] -11.8491 6.74e+05 -1.76e-05 1.000 -1.32e+06 1.32e+06

C(YEAR)[T.2009] -13.4069 8.09e+05 -1.66e-05 1.000 -1.59e+06 1.59e+06

C(YEAR)[T.2010] -18.8836 9.44e+05 -2e-05 1.000 -1.85e+06 1.85e+06

C(YEAR)[T.2011] -19.8292 1.08e+06 -1.84e-05 1.000 -2.12e+06 2.12e+06

C(YEAR)[T.2012] -17.0279 1.21e+06 -1.4e-05 1.000 -2.38e+06 2.38e+06

C(YEAR)[T.2013] -17.1653 1.35e+06 -1.27e-05 1.000 -2.64e+06 2.64e+06

C(YEAR)[T.2014] -18.9620 1.48e+06 -1.28e-05 1.000 -2.91e+06 2.91e+06

C(YEAR)[T.2015] -21.9026 1.62e+06 -1.35e-05 1.000 -3.17e+06 3.17e+06

C(YEAR)[T.2016] -24.8368 1.75e+06 -1.42e-05 1.000 -3.44e+06 3.44e+06

C(YEAR)[T.2017] -27.6615 1.89e+06 -1.46e-05 1.000 -3.7e+06 3.7e+06

C(YEAR)[T.2018] -31.4197 2.02e+06 -1.55e-05 1.000 -3.97e+06 3.97e+06

C(YEAR)[T.2019] -35.4052 2.16e+06 -1.64e-05 1.000 -4.23e+06 4.23e+06

C(YEAR)[T.2020] -37.8850 2.29e+06 -1.65e-05 1.000 -4.49e+06 4.49e+06

C(YEAR)[T.2021] -37.5892 2.43e+06 -1.55e-05 1.000 -4.76e+06 4.76e+06

C(YEAR)[T.2022] -39.2269 2.56e+06 -1.53e-05 1.000 -5.02e+06 5.02e+06

AVG\_IR -0.3113 0.099 -3.133 0.002 -0.506 -0.117

BKPREMR 0.1338 0.131 1.021 0.307 -0.123 0.391

BRO -7.912e-06 2.68e-06 -2.949 0.003 -1.32e-05 -2.65e-06

BROR 0.0360 0.038 0.947 0.343 -0.038 0.110

CERT -8.338e-05 2.28e-05 -3.662 0.000 -0.000 -3.88e-05

DELTA\_AR 0.5031 0.092 5.486 0.000 0.323 0.683

DEPR -0.1956 0.043 -4.589 0.000 -0.279 -0.112

EAMINTQR 0.0336 0.155 0.217 0.828 -0.270 0.337

EINTEXPR 2.6961 0.580 4.645 0.000 1.558 3.834

ELNATRR 0.1155 0.366 0.315 0.752 -0.602 0.833

EQTOTR -59.5484 3970.453 -0.015 0.988 -7841.493 7722.396

IDT1RWAJR -0.0039 0.003 -1.175 0.240 -0.010 0.003

IGLSEC -7.58e-05 4.36e-05 -1.738 0.082 -0.000 9.69e-06

ILNDOMQR -1.5711 0.357 -4.403 0.000 -2.270 -0.872

ILSR -1.4516 0.471 -3.083 0.002 -2.374 -0.529

LIABR -59.2882 3970.460 -0.015 0.988 -7841.246 7722.670

LNATRES 2.253e-05 3.62e-05 0.622 0.534 -4.85e-05 9.35e-05

LNLSNETR 0.0141 0.036 0.394 0.693 -0.056 0.084

LNRECON5 -6.375e-06 3.02e-06 -2.114 0.035 -1.23e-05 -4.65e-07

OREOTH -0.0002 2.43e-05 -6.843 0.000 -0.000 -0.000

P3ASSETR -0.1187 0.191 -0.621 0.534 -0.493 0.256

P9ASSET -6.722e-06 2.21e-05 -0.305 0.761 -5e-05 3.65e-05

RB2LNRESR -0.0848 0.803 -0.106 0.916 -1.658 1.488

RBC1AAJ 0.0035 0.004 0.807 0.419 -0.005 0.012

ROA 0.4726 0.312 1.516 0.129 -0.138 1.084

SCMTGBK -1.273e-06 1.69e-06 -0.754 0.451 -4.58e-06 2.04e-06

SCMTGBKR 0.5516 0.044 12.483 0.000 0.465 0.638

SCSNHAFR 0.9060 0.069 13.186 0.000 0.771 1.041

SZ100 1.2725 1.9e+09 6.7e-10 1.000 -3.72e+09 3.72e+09

SZ100MP 1.2882 1.9e+09 6.78e-10 1.000 -3.72e+09 3.72e+09

SZ100T5 0.2911 0.467 0.624 0.533 -0.624 1.206

SZ25 -0.6566 0.665 -0.987 0.324 -1.960 0.647

VOLIABR -0.3048 0.044 -6.913 0.000 -0.391 -0.218

YEAR 2.9782 1.35e+05 2.21e-05 1.000 -2.64e+05 2.64e+05

total\_loans\_equity -0.0015 0.001 -1.589 0.112 -0.003 0.000

ALABAMA 0.3652 6.49e+05 5.63e-07 1.000 -1.27e+06 1.27e+06

ALASKA 2.2805 5.14e+05 4.44e-06 1.000 -1.01e+06 1.01e+06

ARIZONA 0.1667 7.6e+05 2.19e-07 1.000 -1.49e+06 1.49e+06

ARKANSAS -5.5074 6.49e+05 -8.49e-06 1.000 -1.27e+06 1.27e+06

CALIFORNIA 2.2433 6.85e+05 3.27e-06 1.000 -1.34e+06 1.34e+06

COLORADO -2.1884 7.6e+05 -2.88e-06 1.000 -1.49e+06 1.49e+06

CONNECTICUT 10.3440 6.49e+05 1.59e-05 1.000 -1.27e+06 1.27e+06

DELAWARE -3.6983 7.6e+05 -4.87e-06 1.000 -1.49e+06 1.49e+06

FLORIDA -0.5926 7.6e+05 -7.8e-07 1.000 -1.49e+06 1.49e+06

GEORGIA -4.6709 6.85e+05 -6.82e-06 1.000 -1.34e+06 1.34e+06

HAWAII 3.7385 6.49e+05 5.76e-06 1.000 -1.27e+06 1.27e+06

IDAHO -4.9254 8.57e+05 -5.75e-06 1.000 -1.68e+06 1.68e+06

ILLINOIS -4.7878 7.6e+05 -6.3e-06 1.000 -1.49e+06 1.49e+06

INDIANA 3.6329 7.6e+05 4.78e-06 1.000 -1.49e+06 1.49e+06

IOWA -4.4759 3.94e+05 -1.14e-05 1.000 -7.72e+05 7.72e+05

KANSAS -3.3997 7.6e+05 -4.47e-06 1.000 -1.49e+06 1.49e+06

KENTUCKY 4.0769 6.49e+05 6.28e-06 1.000 -1.27e+06 1.27e+06

LOUISIANA -6.2555 6.49e+05 -9.64e-06 1.000 -1.27e+06 1.27e+06

MAINE 12.4952 5.14e+05 2.43e-05 1.000 -1.01e+06 1.01e+06

MARYLAND 0.2251 6.85e+05 3.29e-07 1.000 -1.34e+06 1.34e+06

MASSACHUSETTS 14.1976 6.49e+05 2.19e-05 1.000 -1.27e+06 1.27e+06

MICHIGAN -2.9672 6.49e+05 -4.57e-06 1.000 -1.27e+06 1.27e+06

MINNESOTA -9.5404 7.6e+05 -1.26e-05 1.000 -1.49e+06 1.49e+06

MISSISSIPPI -3.8210 6.49e+05 -5.89e-06 1.000 -1.27e+06 1.27e+06

MISSOURI -6.9620 7.91e+05 -8.8e-06 1.000 -1.55e+06 1.55e+06

MONTANA -3.1609 6.49e+05 -4.87e-06 1.000 -1.27e+06 1.27e+06

NEBRASKA -8.0267 7.6e+05 -1.06e-05 1.000 -1.49e+06 1.49e+06

NEVADA 1.8576 7.6e+05 2.44e-06 1.000 -1.49e+06 1.49e+06

NEW\_HAMPSHIRE 9.2681 7.6e+05 1.22e-05 1.000 -1.49e+06 1.49e+06

NEW\_JERSEY 7.2839 6.85e+05 1.06e-05 1.000 -1.34e+06 1.34e+06

NEW\_MEXICO -1.2847 6.49e+05 -1.98e-06 1.000 -1.27e+06 1.27e+06

NEW\_YORK 3.0892 6.49e+05 4.76e-06 1.000 -1.27e+06 1.27e+06

NORTH\_CAROLINA 0.4827 6.49e+05 7.44e-07 1.000 -1.27e+06 1.27e+06

NORTH\_DAKOTA -9.3053 7.6e+05 -1.22e-05 1.000 -1.49e+06 1.49e+06

OHIO 5.4462 5.59e+05 9.74e-06 1.000 -1.1e+06 1.1e+06

OKLAHOMA -3.2939 8.57e+05 -3.84e-06 1.000 -1.68e+06 1.68e+06

OREGON 3.9345 6.49e+05 6.07e-06 1.000 -1.27e+06 1.27e+06

PENNSYLVANIA 11.9314 7.6e+05 1.57e-05 1.000 -1.49e+06 1.49e+06

RHODE\_ISLAND 2.1526 6.49e+05 3.32e-06 1.000 -1.27e+06 1.27e+06

SOUTH\_CAROLINA -2.9855 6.85e+05 -4.36e-06 1.000 -1.34e+06 1.34e+06

SOUTH\_DAKOTA -4.7203 7.6e+05 -6.21e-06 1.000 -1.49e+06 1.49e+06

TENNESSEE -1.1561 7.6e+05 -1.52e-06 1.000 -1.49e+06 1.49e+06

TEXAS -0.9508 7.6e+05 -1.25e-06 1.000 -1.49e+06 1.49e+06

UTAH -8.0332 7.6e+05 -1.06e-05 1.000 -1.49e+06 1.49e+06

VERMONT 9.5430 7.91e+05 1.21e-05 1.000 -1.55e+06 1.55e+06

VIRGINIA 0.9098 7.6e+05 1.2e-06 1.000 -1.49e+06 1.49e+06

WASHINGTON 0.3903 6.49e+05 6.02e-07 1.000 -1.27e+06 1.27e+06

WEST\_VIRGINIA 11.4194 7.6e+05 1.5e-05 1.000 -1.49e+06 1.49e+06

WISCONSIN -9.7172 6.49e+05 -1.5e-05 1.000 -1.27e+06 1.27e+06

WYOMING -2.4870 8.85e+05 -2.81e-06 1.000 -1.73e+06 1.73e+06

======================================================================================

Results for dependent variable: ASSTLTR

MSE: 289.9286875265756

R-squared: 0.09056230069411164

ROA ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+total\_loans\_equity+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: ROA No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 1.2907

Method: IRLS Log-Likelihood: -5.1543e+05

Date: Sat, 22 Apr 2023 Deviance: 4.3007e+05

Time: 14:09:53 Pearson chi2: 4.30e+05

No. Iterations: 3 Pseudo R-squ. (CS): 0.5434

Covariance Type: cluster

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coef std err z P>|z| [0.025 0.975]

--------------------------------------------------------------------------------------

Intercept -0.0566 3.83e+07 -1.48e-09 1.000 -7.5e+07 7.5e+07

C(YEAR)[T.2004] -0.0314 6118.755 -5.14e-06 1.000 -1.2e+04 1.2e+04

C(YEAR)[T.2005] 0.0518 1.22e+04 4.23e-06 1.000 -2.4e+04 2.4e+04

C(YEAR)[T.2006] 0.0971 1.84e+04 5.29e-06 1.000 -3.6e+04 3.6e+04

C(YEAR)[T.2007] 0.1790 2.45e+04 7.31e-06 1.000 -4.8e+04 4.8e+04

C(YEAR)[T.2008] 0.2007 3.06e+04 6.56e-06 1.000 -6e+04 6e+04

C(YEAR)[T.2009] 0.1246 3.67e+04 3.39e-06 1.000 -7.19e+04 7.19e+04

C(YEAR)[T.2010] 0.2739 4.28e+04 6.39e-06 1.000 -8.39e+04 8.39e+04

C(YEAR)[T.2011] 0.2667 4.89e+04 5.45e-06 1.000 -9.59e+04 9.59e+04

C(YEAR)[T.2012] 0.3652 5.51e+04 6.63e-06 1.000 -1.08e+05 1.08e+05

C(YEAR)[T.2013] 0.3526 6.12e+04 5.76e-06 1.000 -1.2e+05 1.2e+05

C(YEAR)[T.2014] 0.3959 6.73e+04 5.88e-06 1.000 -1.32e+05 1.32e+05

C(YEAR)[T.2015] 0.4868 7.34e+04 6.63e-06 1.000 -1.44e+05 1.44e+05

C(YEAR)[T.2016] 0.5751 7.95e+04 7.23e-06 1.000 -1.56e+05 1.56e+05

C(YEAR)[T.2017] 0.6283 8.57e+04 7.33e-06 1.000 -1.68e+05 1.68e+05

C(YEAR)[T.2018] 0.7933 9.18e+04 8.64e-06 1.000 -1.8e+05 1.8e+05

C(YEAR)[T.2019] 0.9301 9.79e+04 9.5e-06 1.000 -1.92e+05 1.92e+05

C(YEAR)[T.2020] 0.9100 1.04e+05 8.75e-06 1.000 -2.04e+05 2.04e+05

C(YEAR)[T.2021] 0.8786 1.1e+05 7.98e-06 1.000 -2.16e+05 2.16e+05

C(YEAR)[T.2022] 0.7936 1.16e+05 6.83e-06 1.000 -2.28e+05 2.28e+05

ASSTLTR 0.0031 0.001 2.160 0.031 0.000 0.006

AVG\_IR -0.0508 0.016 -3.197 0.001 -0.082 -0.020

BKPREMR -0.1811 0.013 -14.246 0.000 -0.206 -0.156

BRO 1.431e-07 8.56e-08 1.673 0.094 -2.46e-08 3.11e-07

BROR -0.0015 0.002 -0.787 0.432 -0.005 0.002

CERT -1.099e-05 8.92e-07 -12.321 0.000 -1.27e-05 -9.24e-06

DELTA\_AR 0.0193 0.016 1.224 0.221 -0.012 0.050

DEPR -0.0046 0.005 -0.907 0.364 -0.015 0.005

EAMINTQR -0.4310 0.087 -4.943 0.000 -0.602 -0.260

EINTEXPR -0.3183 0.065 -4.926 0.000 -0.445 -0.192

ELNATRR -1.0655 0.020 -54.183 0.000 -1.104 -1.027

EQTOTR 1.2291 447.715 0.003 0.998 -876.276 878.734

IDT1RWAJR -0.0015 0.001 -1.071 0.284 -0.004 0.001

IGLSEC 6.701e-05 1.2e-05 5.595 0.000 4.35e-05 9.05e-05

ILNDOMQR 0.5300 0.029 18.345 0.000 0.473 0.587

ILSR 0.5476 0.059 9.309 0.000 0.432 0.663

LIABR 1.2345 447.695 0.003 0.998 -876.231 878.700

LNATRES 6.449e-06 2.24e-06 2.874 0.004 2.05e-06 1.08e-05

LNLSNETR -0.0145 0.004 -3.749 0.000 -0.022 -0.007

LNRECON5 4.613e-07 1.64e-07 2.814 0.005 1.4e-07 7.83e-07

OREOTH -1.914e-05 1.78e-06 -10.753 0.000 -2.26e-05 -1.57e-05

P3ASSETR -0.0348 0.008 -4.263 0.000 -0.051 -0.019

P9ASSET 4.765e-06 2.47e-06 1.931 0.054 -7.26e-08 9.6e-06

RB2LNRESR -0.0012 0.050 -0.024 0.981 -0.100 0.097

RBC1AAJ -0.0088 0.005 -1.776 0.076 -0.019 0.001

SCMTGBK -1.145e-07 8.87e-08 -1.291 0.197 -2.88e-07 5.93e-08

SCMTGBKR 0.0014 0.002 0.646 0.518 -0.003 0.006

SCSNHAFR 0.0073 0.002 3.023 0.003 0.003 0.012

SZ100 -0.2906 2.6e+07 -1.12e-08 1.000 -5.09e+07 5.09e+07

SZ100MP 0.2340 2.6e+07 9.01e-09 1.000 -5.09e+07 5.09e+07

SZ100T5 -0.1842 0.024 -7.824 0.000 -0.230 -0.138

SZ25 -0.6841 0.142 -4.804 0.000 -0.963 -0.405

VOLIABR 0.0023 0.002 1.173 0.241 -0.002 0.006

YEAR -0.0609 6118.293 -9.95e-06 1.000 -1.2e+04 1.2e+04

total\_loans\_equity -0.0007 0.000 -1.446 0.148 -0.002 0.000

ALABAMA 0.1964 nan nan nan nan nan

ALASKA -0.1674 nan nan nan nan nan

ARIZONA -0.6162 5.87e+04 -1.05e-05 1.000 -1.15e+05 1.15e+05

ARKANSAS 0.3001 nan nan nan nan nan

CALIFORNIA -0.5222 nan nan nan nan nan

COLORADO 0.1407 nan nan nan nan nan

CONNECTICUT -0.4782 nan nan nan nan nan

DELAWARE -0.2906 nan nan nan nan nan

FLORIDA -0.0630 5.87e+04 -1.07e-06 1.000 -1.15e+05 1.15e+05

GEORGIA 0.0606 nan nan nan nan nan

HAWAII -0.4572 nan nan nan nan nan

IDAHO -0.1409 nan nan nan nan nan

ILLINOIS 0.2001 nan nan nan nan nan

INDIANA 0.0100 5.87e+04 1.71e-07 1.000 -1.15e+05 1.15e+05

IOWA 0.3820 nan nan nan nan nan

KANSAS 0.2761 nan nan nan nan nan

KENTUCKY 0.1687 5.87e+04 2.88e-06 1.000 -1.15e+05 1.15e+05

LOUISIANA 0.2105 5.87e+04 3.59e-06 1.000 -1.15e+05 1.15e+05

MAINE -0.2640 nan nan nan nan nan

MARYLAND -0.2004 nan nan nan nan nan

MASSACHUSETTS 0.2688 nan nan nan nan nan

MICHIGAN -0.0845 nan nan nan nan nan

MINNESOTA 0.2765 nan nan nan nan nan

MISSISSIPPI 0.1658 nan nan nan nan nan

MISSOURI 0.2757 nan nan nan nan nan

MONTANA 0.3059 nan nan nan nan nan

NEBRASKA 0.2999 nan nan nan nan nan

NEVADA -0.2843 nan nan nan nan nan

NEW\_HAMPSHIRE -0.3038 5.87e+04 -5.18e-06 1.000 -1.15e+05 1.15e+05

NEW\_JERSEY -0.1945 nan nan nan nan nan

NEW\_MEXICO 0.4049 nan nan nan nan nan

NEW\_YORK -0.2666 nan nan nan nan nan

NORTH\_CAROLINA -0.0757 5.87e+04 -1.29e-06 1.000 -1.15e+05 1.15e+05

NORTH\_DAKOTA 0.2745 nan nan nan nan nan

OHIO -0.0198 nan nan nan nan nan

OKLAHOMA 0.3894 nan nan nan nan nan

OREGON -0.1669 nan nan nan nan nan

PENNSYLVANIA -0.1509 nan nan nan nan nan

RHODE\_ISLAND -0.5324 nan nan nan nan nan

SOUTH\_CAROLINA 0.0987 6.06e+04 1.63e-06 1.000 -1.19e+05 1.19e+05

SOUTH\_DAKOTA 0.4267 nan nan nan nan nan

TENNESSEE 0.1285 5.87e+04 2.19e-06 1.000 -1.15e+05 1.15e+05

TEXAS 0.1964 5.87e+04 3.35e-06 1.000 -1.15e+05 1.15e+05

UTAH -0.1644 nan nan nan nan nan

VERMONT -0.2477 nan nan nan nan nan

VIRGINIA -0.1535 nan nan nan nan nan

WASHINGTON -0.2935 5.87e+04 -5e-06 1.000 -1.15e+05 1.15e+05

WEST\_VIRGINIA 0.0627 5.87e+04 1.07e-06 1.000 -1.15e+05 1.15e+05

WISCONSIN 0.2391 5.87e+04 4.08e-06 1.000 -1.15e+05 1.15e+05

WYOMING 0.3234 6.06e+04 5.34e-06 1.000 -1.19e+05 1.19e+05

======================================================================================

Results for dependent variable: ROA

MSE: 267.35184424878133

R-squared: -0.005619736308072776

total\_loans\_equity ~ C(YEAR) + ASSTLTR+AVG\_IR+BKPREMR+BRO+BROR+CERT+DELTA\_AR+DEPR+EAMINTQR+EINTEXPR+ELNATRR+EQTOTR+IDT1RWAJR+IGLSEC+ILNDOMQR+ILSR+LIABR+LNATRES+LNLSNETR+LNRECON5+OREOTH+P3ASSETR+P9ASSET+RB2LNRESR+RBC1AAJ+ROA+SCMTGBK+SCMTGBKR+SCSNHAFR+SZ100+SZ100MP+SZ100T5+SZ25+VOLIABR+YEAR+ALABAMA+ALASKA+ARIZONA+ARKANSAS+CALIFORNIA+COLORADO+CONNECTICUT+DELAWARE+FLORIDA+GEORGIA+HAWAII+IDAHO+ILLINOIS+INDIANA+IOWA+KANSAS+KENTUCKY+LOUISIANA+MAINE+MARYLAND+MASSACHUSETTS+MICHIGAN+MINNESOTA+MISSISSIPPI+MISSOURI+MONTANA+NEBRASKA+NEVADA+NEW\_HAMPSHIRE+NEW\_JERSEY+NEW\_MEXICO+NEW\_YORK+NORTH\_CAROLINA+NORTH\_DAKOTA+OHIO+OKLAHOMA+OREGON+PENNSYLVANIA+RHODE\_ISLAND+SOUTH\_CAROLINA+SOUTH\_DAKOTA+TENNESSEE+TEXAS+UTAH+VERMONT+VIRGINIA+WASHINGTON+WEST\_VIRGINIA+WISCONSIN+WYOMING

Index(['ASSTLTR', 'AVG\_IR', 'BKPREMR', 'BRO', 'BROR', 'CERT', 'DELTA\_AR',

'DEPR', 'EAMINTQR', 'EINTEXPR', 'ELNATRR', 'EQTOTR', 'IDT1RWAJR',

'IGLSEC', 'ILNDOMQR', 'ILSR', 'LIABR', 'LNATRES', 'LNLSNETR',

'LNRECON5', 'OREOTH', 'P3ASSETR', 'P9ASSET', 'RB2LNRESR', 'RBC1AAJ',

'ROA', 'SCMTGBK', 'SCMTGBKR', 'SCSNHAFR', 'STNAME', 'SZ100', 'SZ100MP',

'SZ100T5', 'SZ25', 'VOLIABR', 'YEAR', 'total\_loans\_equity', 'ALABAMA',

'ALASKA', 'ARIZONA', 'ARKANSAS', 'CALIFORNIA', 'COLORADO',

'CONNECTICUT', 'DELAWARE', 'FLORIDA', 'GEORGIA', 'HAWAII', 'IDAHO',

'ILLINOIS', 'INDIANA', 'IOWA', 'KANSAS', 'KENTUCKY', 'LOUISIANA',

'MAINE', 'MARYLAND', 'MASSACHUSETTS', 'MICHIGAN', 'MINNESOTA',

'MISSISSIPPI', 'MISSOURI', 'MONTANA', 'NEBRASKA', 'NEVADA',

'NEW\_HAMPSHIRE', 'NEW\_JERSEY', 'NEW\_MEXICO', 'NEW\_YORK',

'NORTH\_CAROLINA', 'NORTH\_DAKOTA', 'OHIO', 'OKLAHOMA', 'OREGON',

'PENNSYLVANIA', 'RHODE\_ISLAND', 'SOUTH\_CAROLINA', 'SOUTH\_DAKOTA',

'TENNESSEE', 'TEXAS', 'UTAH', 'VERMONT', 'VIRGINIA', 'WASHINGTON',

'WEST\_VIRGINIA', 'WISCONSIN', 'WYOMING'],

dtype='object')

Generalized Linear Model Regression Results

==============================================================================

Dep. Variable: total\_loans\_equity No. Observations: 333316

Model: GLM Df Residuals: 333214

Model Family: Gaussian Df Model: 101

Link Function: identity Scale: 637.75

Method: IRLS Log-Likelihood: -1.5492e+06

Date: Sat, 22 Apr 2023 Deviance: 2.1251e+08

Time: 14:11:09 Pearson chi2: 2.13e+08

No. Iterations: 3 Pseudo R-squ. (CS): 0.01075

Covariance Type: cluster

===================================================================================

coef std err z P>|z| [0.025 0.975]

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Intercept -3.4978 2.11e+08 -1.66e-08 1.000 -4.13e+08 4.13e+08

C(YEAR)[T.2004] 2.7417 6.78e+04 4.04e-05 1.000 -1.33e+05 1.33e+05

C(YEAR)[T.2005] 5.4674 1.36e+05 4.03e-05 1.000 -2.66e+05 2.66e+05

C(YEAR)[T.2006] 8.3515 2.03e+05 4.1e-05 1.000 -3.99e+05 3.99e+05

C(YEAR)[T.2007] 11.1460 2.71e+05 4.11e-05 1.000 -5.32e+05 5.32e+05

C(YEAR)[T.2008] 14.0201 3.39e+05 4.13e-05 1.000 -6.65e+05 6.65e+05

C(YEAR)[T.2009] 17.2303 4.07e+05 4.23e-05 1.000 -7.98e+05 7.98e+05

C(YEAR)[T.2010] 19.4658 4.75e+05 4.1e-05 1.000 -9.3e+05 9.3e+05

C(YEAR)[T.2011] 22.1718 5.43e+05 4.09e-05 1.000 -1.06e+06 1.06e+06

C(YEAR)[T.2012] 25.3986 6.1e+05 4.16e-05 1.000 -1.2e+06 1.2e+06

C(YEAR)[T.2013] 28.3336 6.78e+05 4.18e-05 1.000 -1.33e+06 1.33e+06

C(YEAR)[T.2014] 30.9493 7.46e+05 4.15e-05 1.000 -1.46e+06 1.46e+06

C(YEAR)[T.2015] 33.7265 8.14e+05 4.14e-05 1.000 -1.6e+06 1.6e+06

C(YEAR)[T.2016] 36.5296 8.82e+05 4.14e-05 1.000 -1.73e+06 1.73e+06

C(YEAR)[T.2017] 39.3035 9.49e+05 4.14e-05 1.000 -1.86e+06 1.86e+06

C(YEAR)[T.2018] 42.1842 1.02e+06 4.15e-05 1.000 -1.99e+06 1.99e+06

C(YEAR)[T.2019] 45.0046 1.09e+06 4.15e-05 1.000 -2.13e+06 2.13e+06

C(YEAR)[T.2020] 48.5898 1.15e+06 4.21e-05 1.000 -2.26e+06 2.26e+06

C(YEAR)[T.2021] 51.4286 1.22e+06 4.21e-05 1.000 -2.39e+06 2.39e+06

C(YEAR)[T.2022] 55.0485 1.29e+06 4.27e-05 1.000 -2.53e+06 2.53e+06

ASSTLTR -0.0048 0.004 -1.358 0.175 -0.012 0.002

AVG\_IR 0.0857 0.080 1.070 0.285 -0.071 0.243

BKPREMR 0.0309 0.067 0.462 0.644 -0.100 0.162

BRO 8.113e-07 8.33e-07 0.974 0.330 -8.21e-07 2.44e-06

BROR 0.0093 0.011 0.885 0.376 -0.011 0.030

CERT 2.277e-06 3.33e-06 0.685 0.494 -4.24e-06 8.8e-06

DELTA\_AR 0.3976 0.226 1.761 0.078 -0.045 0.840

DEPR -0.0161 0.009 -1.871 0.061 -0.033 0.001

EAMINTQR -0.2016 0.114 -1.768 0.077 -0.425 0.022

EINTEXPR 0.1062 0.184 0.577 0.564 -0.255 0.467

ELNATRR 0.5130 0.271 1.891 0.059 -0.019 1.045

EQTOTR 56.8610 764.559 0.074 0.941 -1441.646 1555.368

IDT1RWAJR 0.0038 0.003 1.168 0.243 -0.003 0.010

IGLSEC -3.77e-06 5.23e-05 -0.072 0.943 -0.000 9.87e-05

ILNDOMQR -0.4412 0.220 -2.007 0.045 -0.872 -0.010

ILSR -0.3843 0.187 -2.051 0.040 -0.751 -0.017

LIABR 57.2176 764.565 0.075 0.940 -1441.302 1555.737

LNATRES -5.413e-05 5.75e-05 -0.942 0.346 -0.000 5.85e-05

LNLSNETR 0.1028 0.010 9.970 0.000 0.083 0.123

LNRECON5 3.326e-06 4.6e-06 0.724 0.469 -5.68e-06 1.23e-05

OREOTH 9.411e-05 5.58e-05 1.686 0.092 -1.53e-05 0.000

P3ASSETR 0.5077 0.343 1.481 0.139 -0.164 1.180

P9ASSET -2.943e-05 1.32e-05 -2.225 0.026 -5.53e-05 -3.51e-06

RB2LNRESR 0.5526 0.344 1.608 0.108 -0.121 1.226

RBC1AAJ 0.0178 0.007 2.485 0.013 0.004 0.032

ROA -0.3387 0.227 -1.495 0.135 -0.783 0.105

SCMTGBK 6.478e-07 1.08e-06 0.601 0.548 -1.47e-06 2.76e-06

SCMTGBKR -0.0066 0.007 -0.992 0.321 -0.020 0.006

SCSNHAFR -0.0165 0.006 -2.919 0.004 -0.028 -0.005

SZ100 -1.6879 7.48e+07 -2.26e-08 1.000 -1.47e+08 1.47e+08

SZ100MP -1.8099 7.48e+07 -2.42e-08 1.000 -1.47e+08 1.47e+08

SZ100T5 0.1601 0.156 1.025 0.305 -0.146 0.466

SZ25 0.3089 0.239 1.295 0.195 -0.159 0.776

VOLIABR -0.0095 0.007 -1.386 0.166 -0.023 0.004

YEAR -2.8508 6.78e+04 -4.2e-05 1.000 -1.33e+05 1.33e+05

ALABAMA -0.0895 nan nan nan nan nan

ALASKA -0.2733 nan nan nan nan nan

ARIZONA 0.1128 nan nan nan nan nan

ARKANSAS -0.3882 3.47e+04 -1.12e-05 1.000 -6.79e+04 6.79e+04

CALIFORNIA -0.0746 nan nan nan nan nan

COLORADO -0.2544 nan nan nan nan nan

CONNECTICUT -0.3695 nan nan nan nan nan

DELAWARE -0.3058 nan nan nan nan nan

FLORIDA 1.1143 nan nan nan nan nan

GEORGIA 0.1537 nan nan nan nan nan

HAWAII 0.7994 3.47e+04 2.3e-05 1.000 -6.8e+04 6.8e+04

IDAHO 0.0777 nan nan nan nan nan

ILLINOIS -0.3788 nan nan nan nan nan

INDIANA -0.2522 3.47e+04 -7.27e-06 1.000 -6.8e+04 6.8e+04

IOWA -0.2212 nan nan nan nan nan

KANSAS -0.0841 nan nan nan nan nan

KENTUCKY -0.0530 nan nan nan nan nan

LOUISIANA -0.2116 3.46e+04 -6.11e-06 1.000 -6.79e+04 6.79e+04

MAINE -0.3154 nan nan nan nan nan

MARYLAND -0.4098 nan nan nan nan nan

MASSACHUSETTS -0.0444 3.47e+04 -1.28e-06 1.000 -6.8e+04 6.8e+04

MICHIGAN -0.3093 nan nan nan nan nan

MINNESOTA -0.1876 nan nan nan nan nan

MISSISSIPPI -0.5996 nan nan nan nan nan

MISSOURI -0.1292 nan nan nan nan nan

MONTANA -0.2000 nan nan nan nan nan

NEBRASKA -0.2388 3.47e+04 -6.89e-06 1.000 -6.8e+04 6.8e+04

NEVADA 1.8612 nan nan nan nan nan

NEW\_HAMPSHIRE -0.2678 nan nan nan nan nan

NEW\_JERSEY 0.0091 nan nan nan nan nan

NEW\_MEXICO -0.0242 nan nan nan nan nan

NEW\_YORK -0.1470 3.47e+04 -4.23e-06 1.000 -6.81e+04 6.81e+04

NORTH\_CAROLINA -0.3072 nan nan nan nan nan

NORTH\_DAKOTA -0.0820 3.46e+04 -2.37e-06 1.000 -6.79e+04 6.79e+04

OHIO -0.3010 nan nan nan nan nan

OKLAHOMA 0.0710 nan nan nan nan nan

OREGON -0.0131 3.47e+04 -3.77e-07 1.000 -6.8e+04 6.8e+04

PENNSYLVANIA -0.1741 3.47e+04 -5.02e-06 1.000 -6.79e+04 6.79e+04

RHODE\_ISLAND -0.0334 nan nan nan nan nan

SOUTH\_CAROLINA -0.0117 nan nan nan nan nan

SOUTH\_DAKOTA -0.0855 nan nan nan nan nan

TENNESSEE -0.2362 3.47e+04 -6.81e-06 1.000 -6.8e+04 6.8e+04

TEXAS -0.0781 nan nan nan nan nan

UTAH 0.4798 nan nan nan nan nan

VERMONT -0.0981 nan nan nan nan nan

VIRGINIA -0.2786 nan nan nan nan nan

WASHINGTON 0.2751 nan nan nan nan nan

WEST\_VIRGINIA -0.5009 nan nan nan nan nan

WISCONSIN -0.3459 nan nan nan nan nan

WYOMING -0.0770 nan nan nan nan nan

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Results for dependent variable: total\_loans\_equity

MSE: 42.497931559552896

R-squared: -2.228933721384821