# Regression Results for bkvlps

OLS Regression Results   
==============================================================================  
Dep. Variable: bkvlps R-squared: 0.006  
Model: OLS Adj. R-squared: 0.005  
Method: Least Squares F-statistic: 9.927  
Date: Mon, 27 May 2024 Prob (F-statistic): 4.66e-37  
Time: 03:02:12 Log-Likelihood: -1.9917e+05  
No. Observations: 39266 AIC: 3.984e+05  
Df Residuals: 39241 BIC: 3.986e+05  
Df Model: 24   
Covariance Type: nonrobust   
===============================================================================  
 coef std err t P>|t| [0.025 0.975]  
-------------------------------------------------------------------------------  
const 12.5932 0.764 16.489 0.000 11.096 14.090  
motif\_003 1.912e-14 1.03e-14 1.854 0.064 -1.1e-15 3.93e-14  
motif\_012 -3.065e-14 1.87e-14 -1.635 0.102 -6.74e-14 6.09e-15  
motif\_102 -9.862e-15 1.25e-14 -0.788 0.431 -3.44e-14 1.47e-14  
motif\_021D -0.0606 0.017 -3.615 0.000 -0.093 -0.028  
motif\_021U 0.1508 0.091 1.659 0.097 -0.027 0.329  
motif\_021C -0.5259 0.321 -1.637 0.102 -1.156 0.104  
motif\_111D -0.0964 0.030 -3.245 0.001 -0.155 -0.038  
motif\_111U 0.3260 0.061 5.378 0.000 0.207 0.445  
motif\_030T -3.532e-14 2.96e-14 -1.192 0.233 -9.34e-14 2.27e-14  
motif\_030C -5.384e-15 4.1e-15 -1.312 0.190 -1.34e-14 2.66e-15  
motif\_201 0.0466 0.009 5.337 0.000 0.030 0.064  
motif\_120D -0.7944 0.619 -1.283 0.199 -2.008 0.419  
motif\_120U -11.8350 6.486 -1.825 0.068 -24.548 0.878  
motif\_120C -20.0111 15.823 -1.265 0.206 -51.025 11.002  
motif\_210 -4.7894 3.313 -1.446 0.148 -11.282 1.704  
motif\_300 -0.8635 0.213 -4.057 0.000 -1.281 -0.446  
year\_2011.0 0.2969 1.073 0.277 0.782 -1.807 2.400  
year\_2012.0 0.4267 1.070 0.399 0.690 -1.670 2.524  
year\_2013.0 0.9911 1.063 0.933 0.351 -1.092 3.074  
year\_2014.0 0.9449 1.052 0.898 0.369 -1.118 3.008  
year\_2015.0 0.9495 1.051 0.903 0.366 -1.111 3.010  
year\_2016.0 1.6593 1.056 1.571 0.116 -0.411 3.730  
year\_2017.0 3.4483 1.057 3.264 0.001 1.377 5.519  
year\_2018.0 3.6095 1.055 3.421 0.001 1.542 5.677  
year\_2019.0 4.3761 1.051 4.162 0.000 2.315 6.437  
year\_2020.0 4.7005 1.043 4.507 0.000 2.656 6.745  
year\_2021.0 4.9108 1.020 4.813 0.000 2.911 6.911  
year\_2022.0 4.4013 1.022 4.307 0.000 2.398 6.404  
year\_2023.0 7.1259 1.056 6.749 0.000 5.056 9.195  
==============================================================================  
Omnibus: 75350.988 Durbin-Watson: 0.417  
Prob(Omnibus): 0.000 Jarque-Bera (JB): 579164556.938  
Skew: 14.435 Prob(JB): 0.00  
Kurtosis: 597.274 Cond. No. 1.17e+16  
==============================================================================  
  
Notes:  
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.  
[2] The smallest eigenvalue is 6.47e-25. This might indicate that there are  
strong multicollinearity problems or that the design matrix is singular.

# Regression Results for epspx

OLS Regression Results   
==============================================================================  
Dep. Variable: epspx R-squared: 0.004  
Model: OLS Adj. R-squared: 0.003  
Method: Least Squares F-statistic: 6.748  
Date: Mon, 27 May 2024 Prob (F-statistic): 2.18e-22  
Time: 03:02:12 Log-Likelihood: -1.3872e+05  
No. Observations: 39360 AIC: 2.775e+05  
Df Residuals: 39335 BIC: 2.777e+05  
Df Model: 24   
Covariance Type: nonrobust   
===============================================================================  
 coef std err t P>|t| [0.025 0.975]  
-------------------------------------------------------------------------------  
const 1.0501 0.162 6.468 0.000 0.732 1.368  
motif\_003 1.193e-15 6.26e-15 0.191 0.849 -1.11e-14 1.35e-14  
motif\_012 -2.839e-16 8.02e-16 -0.354 0.723 -1.86e-15 1.29e-15  
motif\_102 7.102e-16 3.46e-16 2.051 0.040 3.15e-17 1.39e-15  
motif\_021D -0.0078 0.004 -2.189 0.029 -0.015 -0.001  
motif\_021U 0.0397 0.019 2.054 0.040 0.002 0.078  
motif\_021C -0.0261 0.068 -0.382 0.703 -0.160 0.108  
motif\_111D -0.0280 0.006 -4.431 0.000 -0.040 -0.016  
motif\_111U 0.0411 0.013 3.202 0.001 0.016 0.066  
motif\_030T -2.17e-15 1.85e-15 -1.170 0.242 -5.81e-15 1.47e-15  
motif\_030C -1.006e-15 1.75e-15 -0.573 0.566 -4.44e-15 2.43e-15  
motif\_201 0.0098 0.002 5.289 0.000 0.006 0.013  
motif\_120D -0.0150 0.131 -0.114 0.909 -0.273 0.243  
motif\_120U -1.2996 1.379 -0.942 0.346 -4.003 1.404  
motif\_120C -3.8458 3.365 -1.143 0.253 -10.442 2.750  
motif\_210 -1.4938 0.705 -2.120 0.034 -2.875 -0.113  
motif\_300 -0.0997 0.045 -2.207 0.027 -0.188 -0.011  
year\_2011.0 0.0097 0.228 0.042 0.966 -0.438 0.457  
year\_2012.0 0.0695 0.227 0.306 0.760 -0.376 0.515  
year\_2013.0 0.1516 0.226 0.671 0.502 -0.291 0.594  
year\_2014.0 0.0221 0.224 0.099 0.921 -0.416 0.460  
year\_2015.0 -0.4228 0.223 -1.893 0.058 -0.861 0.015  
year\_2016.0 -0.1064 0.225 -0.474 0.636 -0.547 0.334  
year\_2017.0 0.2096 0.225 0.933 0.351 -0.231 0.650  
year\_2018.0 0.3484 0.224 1.553 0.120 -0.091 0.788  
year\_2019.0 0.2803 0.223 1.254 0.210 -0.158 0.718  
year\_2020.0 -0.5253 0.222 -2.369 0.018 -0.960 -0.091  
year\_2021.0 0.9938 0.217 4.584 0.000 0.569 1.419  
year\_2022.0 0.1827 0.217 0.841 0.400 -0.243 0.608  
year\_2023.0 0.6568 0.224 2.935 0.003 0.218 1.096  
==============================================================================  
Omnibus: 96682.371 Durbin-Watson: 1.314  
Prob(Omnibus): 0.000 Jarque-Bera (JB): 8943850897.107  
Skew: 25.317 Prob(JB): 0.00  
Kurtosis: 2337.738 Cond. No. 1.17e+16  
==============================================================================  
  
Notes:  
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.  
[2] The smallest eigenvalue is 6.48e-25. This might indicate that there are  
strong multicollinearity problems or that the design matrix is singular.