# Regression Results for bkvlps

OLS Regression Results   
==============================================================================  
Dep. Variable: bkvlps R-squared: 0.028  
Model: OLS Adj. R-squared: 0.024  
Method: Least Squares F-statistic: 6.779  
Date: Sun, 26 May 2024 Prob (F-statistic): 1.54e-20  
Time: 22:43:47 Log-Likelihood: -22202.  
No. Observations: 5158 AIC: 4.445e+04  
Df Residuals: 5135 BIC: 4.460e+04  
Df Model: 22   
Covariance Type: nonrobust   
===============================================================================  
 coef std err t P>|t| [0.025 0.975]  
-------------------------------------------------------------------------------  
const 12.1867 1.304 9.344 0.000 9.630 14.744  
motif\_003 4.297e-15 5.93e-15 0.724 0.469 -7.33e-15 1.59e-14  
motif\_012 -7.658e-15 6.94e-15 -1.103 0.270 -2.13e-14 5.95e-15  
motif\_102 1.73e-15 5.76e-15 0.300 0.764 -9.56e-15 1.3e-14  
motif\_021D 0.0041 0.030 0.140 0.889 -0.054 0.062  
motif\_021U -1.3483 1.222 -1.103 0.270 -3.744 1.047  
motif\_021C -0.4665 0.356 -1.310 0.190 -1.165 0.232  
motif\_111D -0.0290 0.325 -0.089 0.929 -0.665 0.607  
motif\_111U 0.4722 0.176 2.682 0.007 0.127 0.817  
motif\_030T 5.3723 9.012 0.596 0.551 -12.294 23.039  
motif\_030C 2.491e-15 1.74e-15 1.432 0.152 -9.2e-16 5.9e-15  
motif\_201 0.7331 0.145 5.061 0.000 0.449 1.017  
motif\_120D 3.9097 7.350 0.532 0.595 -10.500 18.319  
motif\_120U 2.3404 2.180 1.074 0.283 -1.933 6.613  
motif\_120C -3.6389 6.011 -0.605 0.545 -15.424 8.146  
motif\_210 16.4089 3.716 4.416 0.000 9.125 23.693  
motif\_300 -3.2163 1.003 -3.206 0.001 -5.183 -1.249  
year\_2011.0 -1.0411 1.646 -0.633 0.527 -4.268 2.185  
year\_2012.0 -0.6112 1.602 -0.382 0.703 -3.751 2.529  
year\_2013.0 -0.3783 1.563 -0.242 0.809 -3.443 2.686  
year\_2014.0 -0.5210 1.542 -0.338 0.735 -3.544 2.502  
year\_2015.0 -0.0859 1.528 -0.056 0.955 -3.081 2.909  
year\_2016.0 0.6859 1.526 0.450 0.653 -2.305 3.677  
year\_2017.0 2.4555 1.523 1.612 0.107 -0.530 5.441  
year\_2018.0 3.3974 1.516 2.240 0.025 0.425 6.370  
year\_2019.0 3.9906 1.515 2.633 0.008 1.020 6.961  
year\_2020.0 5.0772 1.516 3.350 0.001 2.106 8.048  
==============================================================================  
Omnibus: 6585.118 Durbin-Watson: 0.391  
Prob(Omnibus): 0.000 Jarque-Bera (JB): 2389542.500  
Skew: 6.711 Prob(JB): 0.00  
Kurtosis: 107.586 Cond. No. 1.25e+16  
==============================================================================  
  
Notes:  
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.  
[2] The smallest eigenvalue is 4.33e-27. 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: 0.009  
Model: OLS Adj. R-squared: 0.004  
Method: Least Squares F-statistic: 2.016  
Date: Sun, 26 May 2024 Prob (F-statistic): 0.00329  
Time: 22:43:47 Log-Likelihood: -14122.  
No. Observations: 5162 AIC: 2.829e+04  
Df Residuals: 5139 BIC: 2.844e+04  
Df Model: 22   
Covariance Type: nonrobust   
===============================================================================  
 coef std err t P>|t| [0.025 0.975]  
-------------------------------------------------------------------------------  
const 1.0425 0.272 3.837 0.000 0.510 1.575  
motif\_003 -1.382e-16 1.44e-15 -0.096 0.924 -2.96e-15 2.69e-15  
motif\_012 -1.183e-16 1.34e-15 -0.088 0.930 -2.75e-15 2.52e-15  
motif\_102 2.022e-16 6.76e-16 0.299 0.765 -1.12e-15 1.53e-15  
motif\_021D 0.0089 0.006 1.444 0.149 -0.003 0.021  
motif\_021U -0.3641 0.255 -1.431 0.153 -0.863 0.135  
motif\_021C -0.0552 0.074 -0.744 0.457 -0.201 0.090  
motif\_111D 0.0748 0.068 1.108 0.268 -0.058 0.207  
motif\_111U -0.0182 0.037 -0.497 0.620 -0.090 0.054  
motif\_030T 0.5207 1.877 0.277 0.782 -3.160 4.201  
motif\_030C 5.243e-16 1.64e-15 0.320 0.749 -2.69e-15 3.74e-15  
motif\_201 0.1019 0.030 3.380 0.001 0.043 0.161  
motif\_120D 0.1778 1.531 0.116 0.908 -2.824 3.180  
motif\_120U 0.2528 0.454 0.557 0.578 -0.637 1.143  
motif\_120C 0.1147 1.252 0.092 0.927 -2.340 2.570  
motif\_210 0.1920 0.774 0.248 0.804 -1.325 1.709  
motif\_300 -0.5367 0.209 -2.568 0.010 -0.946 -0.127  
year\_2011.0 -0.0980 0.343 -0.286 0.775 -0.771 0.574  
year\_2012.0 -0.0116 0.334 -0.035 0.972 -0.666 0.643  
year\_2013.0 -0.0662 0.326 -0.203 0.839 -0.705 0.572  
year\_2014.0 -0.0008 0.321 -0.003 0.998 -0.631 0.629  
year\_2015.0 -0.2899 0.318 -0.911 0.362 -0.914 0.334  
year\_2016.0 -0.0838 0.318 -0.264 0.792 -0.707 0.539  
year\_2017.0 0.2955 0.317 0.932 0.352 -0.326 0.917  
year\_2018.0 0.4360 0.316 1.380 0.168 -0.183 1.055  
year\_2019.0 0.3533 0.316 1.119 0.263 -0.265 0.972  
year\_2020.0 -0.1908 0.316 -0.605 0.546 -0.809 0.428  
==============================================================================  
Omnibus: 8518.972 Durbin-Watson: 1.298  
Prob(Omnibus): 0.000 Jarque-Bera (JB): 45338131.041  
Skew: -10.115 Prob(JB): 0.00  
Kurtosis: 461.676 Cond. No. 1.25e+16  
==============================================================================  
  
Notes:  
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.  
[2] The smallest eigenvalue is 4.33e-27. This might indicate that there are  
strong multicollinearity problems or that the design matrix is singular.