

OLS Regression Results

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Dep. Variable:   difference_log_shares   R-squared:           0.079
Model:          OLS   Adj. R-squared:    0.078
Method:         Least Squares   F-statistic:         96.39
Date:           Wed, 09 Oct 2024   Prob (F-statistic):   6.82e-41
Time:           11:00:52   Log-Likelihood:      -3529.8
No. Observations: 2256   AIC:              7066.
Df Residuals:   2253   BIC:              7083.
Df Model:        2
Covariance Type: nonrobust
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	coef	std err	t	P> t	[0.025	0.975]
constant	-2.9665	0.109	-27.328	0.000	-3.179	-2.754
sugar	0.0463	0.004	10.543	0.000	0.038	0.055
prices	-10.2036	0.876	-11.654	0.000	-11.921	-8.487

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Omnibus:            8.199   Durbin-Watson:           1.904
Prob(Omnibus):      0.017   Jarque-Bera (JB):           8.174
Skew:               -0.146   Prob(JB):              0.0168
Kurtosis:           3.036   Cond. No.              377.
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Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

TOLS Regression Results

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Dep. Variable:          y   R-squared:          0.090
Model:                  OLS   Adj. R-squared:    0.089
Method:                 Least Squares   F-statistic:    111.6
Date:                   Wed, 09 Oct 2024   Prob (F-statistic):    6.14e-47
Time:                   11:00:52   Log-Likelihood:    -3515.9
No. Observations:       2256   AIC:          7038.
Df Residuals:           2253   BIC:          7055.
Df Model:                2
Covariance Type:        nonrobust
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	coef	std err	t	P> t	[0.025	0.975]
const	-2.8431	0.109	-26.165	0.000	-3.056	-2.630
sugar	0.0479	0.004	10.955	0.000	0.039	0.056
tsls_fitted_price	-11.2911	0.878	-12.865	0.000	-13.012	-9.570

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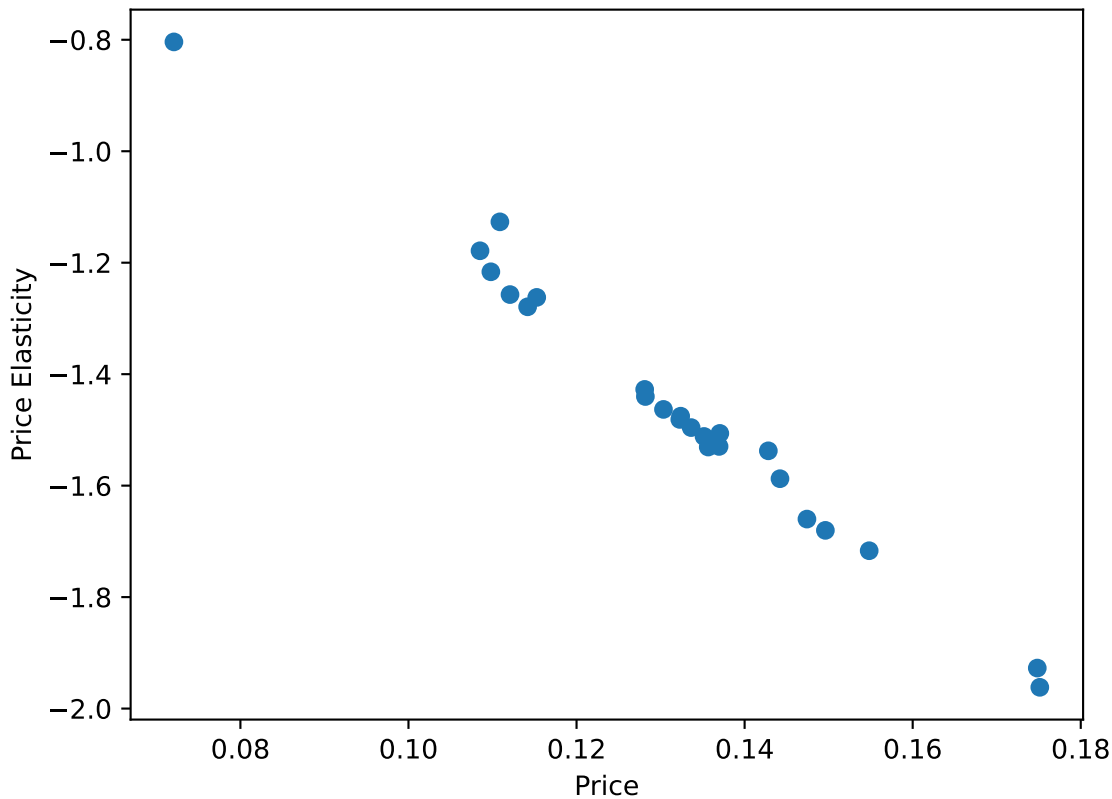
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Omnibus:                11.522   Durbin-Watson:          1.902
Prob(Omnibus):           0.003   Jarque-Bera (JB):        11.566
Skew:                    -0.175   Prob(JB):                0.00308
Kurtosis:                 3.032   Cond. No.                 380.
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Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

2SLS - Price Elasticities for market C01Q1



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BLP Model Results

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Coefficients (Beta_it):

Beta_0 (Intercept): 4.4610
Beta_sugar: 0.1499
Beta_0_income (Interaction with income): -3.8879

Price Coefficients (Alpha_it):

Alpha_0 (Price coefficient): -2.2347
Alpha_income (Interaction with income): -33.2628
Alpha_nu (Random taste for price): 1.0767

Price Elasticities:

Elasticity[0]: -1.9686
Elasticity[1]: -4.2583
Elasticity[2]: -0.6973
Elasticity[3]: -0.5444
Elasticity[4]: -1.7482
Elasticity[5]: -3.0697
Elasticity[6]: 0.3400
Elasticity[7]: -0.9263
Elasticity[8]: -2.6858
Elasticity[9]: -1.0377
Elasticity[10]: -2.5825
Elasticity[11]: -1.6199
Elasticity[12]: -1.2269
Elasticity[13]: -2.4217
Elasticity[14]: -3.1924
Elasticity[15]: -1.8089
Elasticity[16]: -2.2577
Elasticity[17]: 0.6121
Elasticity[18]: -4.1290
Elasticity[19]: -1.2747
Elasticity[20]: -1.1150
Elasticity[21]: -1.0806
Elasticity[22]: -2.7310
Elasticity[23]: 1.1518

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BLP - Price Elasticities for market C01Q1

