

LAMPIRAN

Lampiran 1

Common Effect Method

Dependent Variable: LOG(PREM?)

Method: Pooled Least Squares

Date: 12/25/17 Time: 11:53

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(JKB?)	1.009029	0.008814	114.4759	0.0000
LOG(HARGA?)	-0.100197	0.013321	-7.521480	0.0000
LOG(JP?)	0.043652	0.010308	4.234584	0.0001
R-squared	0.998145	Mean dependent var		11.23659
Adjusted R-squared	0.998045	S.D. dependent var		0.629570
S.E. of regression	0.027835	Akaike info criterion		-4.253005
Sum squared resid	0.028667	Schwarz criterion		-4.126339
Log likelihood	88.06009	Hannan-Quinn criter.		-4.207206
Durbin-Watson stat	0.338885			

Lampiran 2

Fixed Effect Method

Dependent Variable: LOG(PREM?)

Method: Pooled Least Squares

Date: 12/25/17 Time: 11:55

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.420909	0.520149	2.731735	0.0102
LOG(JKB?)	0.996468	0.005621	177.2633	0.0000
LOG(HARGA?)	-0.003336	0.002962	-1.126524	0.2683
LOG(JP?)	0.007807	0.043679	0.178737	0.0293
Fixed Effects (Cross)				
_KULONPROGO--C	0.001349			
_BANTUL--C	-0.001305			
_GUNUNGKIDUL--C	-0.004036			
_SLEMAN--C	-0.001320			
_KOTAYOGYAKARTA— C	0.005313			
Effects Specification				
Cross-section fixed (dummy variables)				
R-squared	0.999988	Mean dependent var		11.23659
Adjusted R-squared	0.999985	S.D. dependent var		0.629570
S.E. of regression	0.002428	Akaike info criterion		-9.026387
Sum squared resid	0.000189	Schwarz criterion		-8.688611
Log likelihood	188.5277	Hannan-Quinn criter.		-8.904258
F-statistic	374491.4	Durbin-Watson stat		2.673751
Prob(F-statistic)	0.000000			

Lampiran 3

Chow Test

Redundant Fixed Effects Tests

Pool: PANEL

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	0.872912	(4,32)	0.0000
Cross-section Chi-square	4.142459	4	0.0000

Cross-section fixed effects test equation:

Dependent Variable: LOG(PREM?)

Method: Panel Least Squares

Date: 12/25/17 Time: 11:57

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.340067	0.019153	-69.96578	0.0000
LOG(JKB?)	1.000815	0.000772	1295.584	0.0000
LOG(HARGA?)	0.000972	0.001850	0.525650	0.6024
LOG(JP?)	-0.000801	0.001083	-0.739922	0.4641
R-squared	0.999986	Mean dependent var		11.23659
Adjusted R-squared	0.999985	S.D. dependent var		0.629570
S.E. of regression	0.002411	Akaike info criterion		-9.122825
Sum squared resid	0.000209	Schwarz criterion		-8.953937
Log likelihood	186.4565	Hannan-Quinn criter.		-9.061761
F-statistic	886328.0	Durbin-Watson stat		2.410675
Prob(F-statistic)	0.000000			

Lampiran 4

Random Effect Method

Dependent Variable: LOG(PREM?)
 Method: Pooled EGLS (Cross-section random effects)
 Date: 12/25/17 Time: 11:58
 Sample: 2008 2015
 Included observations: 8
 Cross-sections included: 5
 Total pool (balanced) observations: 40
 Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.340100	0.019568	-68.48451	0.0000
LOG(JKB?)	1.000799	0.000807	1240.476	0.0000
LOG(HARGA?)	0.000983	0.001869	0.526101	0.6020
LOG(JP?)	-0.000791	0.001133	-0.697966	0.4897
Random Effects (Cross)				
_KULONPROGO--C	4.66E-05			
_BANTUL--C	2.95E-05			
_GUNUNGKIDUL--C	-7.33E-05			
_SLEMAN--C	1.64E-05			
_KOTAYOGYAKARTA--C	-1.93E-05			
Effects Specification				
			S.D.	Rho
Cross-section random			0.000243	0.0099
Idiosyncratic random			0.002428	0.9901
Weighted Statistics				
R-squared	0.999986	Mean dependent var		10.81273
Adjusted R-squared	0.999984	S.D. dependent var		0.608317
S.E. of regression	0.002405	Sum squared resid		0.000208
F-statistic	831371.3	Durbin-Watson stat		2.421879
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.999986	Mean dependent var		11.23659
Sum squared resid	0.000209	Durbin-Watson stat		2.410557

Lampiran 5

Hausman Test

Correlated Random Effects - Hausman Test

Pool: PANEL

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	25.949698	3	0.0000

* Cross-section test variance is invalid. Hausman statistic set to zero.

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
LOG(JKB?)	0.996468	1.000799	0.000031	0.4362
LOG(HARGA?)	0.003336	0.000983	0.000005	0.3058
LOG(JP?)	0.007807	-0.000791	0.001907	0.8439

Cross-section random effects test equation:

Dependent Variable: LOG(PREM?)

Method: Panel Least Squares

Date: 12/25/17 Time: 11:58

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.420909	0.520149	2.731735	0.0102
LOG(JKB?)	0.996468	0.005621	177.2633	0.0000
LOG(HARGA?)	-0.003336	0.002962	-1.126524	0.2683
LOG(JP?)	0.007807	0.043679	0.178737	0.0293

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.999988	Mean dependent var	11.23659
Adjusted R-squared	0.999985	S.D. dependent var	0.629570
S.E. of regression	0.002428	Akaike info criterion	-9.026387
Sum squared resid	0.000189	Schwarz criterion	-8.688611
Log likelihood	188.5277	Hannan-Quinn criter.	-8.904258
F-statistic	374491.4	Durbin-Watson stat	2.673751
Prob(F-statistic)	0.000000		

Lampiran 6

Heteroskedastisitas

Dependent Variable: RESID?
Method: Pooled Least Squares
Date: 12/25/17 Time: 12:07
Sample: 2008 2015
Included observations: 8
Cross-sections included: 5
Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.031238	0.371616	0.084061	0.9335
LOG(JKB?)	0.003267	0.004016	0.813572	0.4219
LOG(HARGA?)	-0.003267	0.002116	-1.544163	0.1324
LOG(JP?)	-0.003234	0.031206	-0.103624	0.9181
Fixed Effects (Cross)				
_KULONPROGO--C	0.000450			
_BANTUL--C	-0.000478			
_GUNUNGKIDUL--C	0.004274			
_SLEMAN--C	-0.001161			
_KOTAYOGYAKARTA--C	-0.003085			
Effects Specification				
Cross-section fixed (dummy variables)				
R-squared	0.365056	Mean dependent var		0.000962
Adjusted R-squared	0.226162	S.D. dependent var		0.001972
S.E. of regression	0.001735	Akaike info criterion		-9.698894
Sum squared resid	9.63E-05	Schwarz criterion		-9.361119
Log likelihood	201.9779	Hannan-Quinn criter.		-9.576765
F-statistic	2.628308	Durbin-Watson stat		2.423642
Prob(F-statistic)	0.029002			

Lampiran 7

Multikolinieritas

	LOG(JKB)	LOG(HARGA)	LOG(JP)
LOG(JKB)	1.000000	0.251926	0.563978
LOG(HARGA)	0.251926	1.000000	0.046924
LOG(JP)	0.563978	0.046924	1.000000

Lampiran 8

Uji efek wilayah

Substituted Coefficients:

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$$\begin{aligned} \text{LOG(PREM_KULONPROGO)} &= 0.00134871030041 + 1.42090924316 + \\ &0.996467704343 * \text{LOG(JKB_KULONPROGO)} - \\ &0.00333642331162 * \text{LOG(HARGA_KULONPROGO)} + \\ &0.00780707320985 * \text{LOG(JP_KULONPROGO)} \end{aligned}$$

$$\begin{aligned} \text{LOG(PREM_BANTUL)} &= -0.00130540853825 + 1.42090924316 + \\ &0.996467704343 * \text{LOG(JKB_BANTUL)} - 0.00333642331162 * \text{LOG(HARGA_BANTUL)} + \\ &0.00780707320985 * \text{LOG(JP_BANTUL)} \end{aligned}$$

$$\begin{aligned} \text{LOG(PREM_GUNUNGKIDUL)} &= -0.00403568347085 + 1.42090924316 + \\ &0.996467704343 * \text{LOG(JKB_GUNUNGKIDUL)} - \\ &0.00333642331162 * \text{LOG(HARGA_GUNUNGKIDUL)} + \\ &0.00780707320985 * \text{LOG(JP_GUNUNGKIDUL)} \end{aligned}$$

$$\begin{aligned} \text{LOG(PREM_SLEMAN)} &= -0.00132025694183 + 1.42090924316 + \\ &0.996467704343 * \text{LOG(JKB_SLEMAN)} - 0.00333642331162 * \text{LOG(HARGA_SLEMAN)} + \\ &0.00780707320985 * \text{LOG(JP_SLEMAN)} \end{aligned}$$

$$\begin{aligned} \text{LOG(PREM_KOTAYOGYAKARTA)} &= 0.00531263865055 + 1.42090924316 + \\ &0.996467704343 * \text{LOG(JKB_KOTAYOGYAKARTA)} - \\ &0.00333642331162 * \text{LOG(HARGA_KOTAYOGYAKARTA)} + \\ &0.00780707320985 * \text{LOG(JP_KOTAYOGYAKARTA)} \end{aligned}$$

Lampiran 9

Data Permintaan Premium, Jumlah Kendaraan Bermotor, Harga dan Jumlah Penduduk Kabupaten/Kota di Provinsi Daerah Istimewa Yogyakarta Pada Tahun 2008-2015

Kabupaten/Kota	Tahun	Permintaan premium	Jumlah Kendaraan	Harga	Jumlah Penduduk
Kulonprogo	2008	24260	91895	5000	386781
	2009	26676	101046	4500	387493
	2010	29418	111432	4500	388869
	2011	32214	122024	4500	393796
	2012	35471	134358	4500	397639
	2013	39442	149402	6500	401450
	2014	44487	168513	7500	405222
	2015	46932	177771	7250	412704
Bantul	2008	77324	292895	5000	887625
	2009	84530	320190	4500	899312
	2010	92118	348931	4500	911503
	2011	101336	383849	4500	927846
	2012	111086	420780	4500	941414
	2013	121753	461187	6500	955015
	2014	135955	514982	7500	968632
	2015	142666	540400	7250	971511
Gunungkidul	2008	28997	109838	5000	670646
	2009	32565	123353	4500	675474
	2010	36456	138090	4500	675382
	2011	40921	157350	4500	682670
	2012	44698	169311	4500	688135
	2013	50131	189889	6500	693523
	2014	55309	209505	7500	698825
	2015	59788	226470	7250	715282
Sleman	2008	119877	454080	5000	1068147
	2009	127653	483535	4500	1074673
	2010	139225	527378	4500	1093110
	2011	152516	577711	4500	1113297
	2012	164810	624282	4500	1130140
	2013	180155	682402	6500	1147037
	2014	197044	746379	7500	1163970

	2015	206299	781437	7250	1167481
Kota Yogyakarta	2008	86487	327601	5000	387021
	2009	90837	344078	4500	389685
	2010	95622	362204	4500	390627
	2011	100918	382265	4500	392388
	2012	105866	401007	4500	395134
	2013	112246	425175	6500	397928
	2014	120549	456626	7500	400467
	2015	124223	470542	7250	412704