

APPENDIX

A. DATA OBSERVASION

Region	Year	PAD	Export	Hotel and Restaurant Tax	EMP	PDRB
KulonProgo	2010	48.190.801.571,16	5.271.647	482.303.069	208.775	1.781.227,00
	2011	53.752.293.431,63	4.571.171	482.303.069	208.775	1.869.338
	2012	74.028.663.155,07	7.827.040,25	482.303.069	232.088	5.475.148,20
	2013	95.991.512.851,06	11.958.075	711.225.429	229.930	5.741.660,29
	2014	158.800.563.703,19	15.078.454,87	709.645.778	243.541	6.004.316,44
	2015	170.822.326.558,34	17.561.324,07	1.021.300.925	241.156	6.281.795,76
	2016	180.273.363.594,69	21.687.942,04	1.384.003.191	244.415	6.580.776,97
Bantul	2010	81.636.666,10	33.479.635,96	485.505.400	490.716	12.114.059,20
	2011	128.900.086.173	41.570.984,00	1.654.414.595	490.716	12.728.666,30
	2012	166.597.778.037	44.582.627,05	3.679.499.071	515.505	13.407.021,78
	2013	224.197.864.331	54.350.443,46	4.916.961.951	481.250	14.138.719,30
	2014	357.411.062.723	307.100.417,11	5.627.251.051	501.606	14.851.124,13
	2015	390.624.492.073	206.576.017,10	6.599.191.306	510.544	15.588.520,43
	2016	404.454.703.746	73.971.386,17	8.358.234.653	558.978	16.377.984,32
Gunung Kidul	2010	42.521.521.211,92	5.138.960	73.264.150	366.033	8.848.037,90
	2011	54.462.418.772,18	5.465.392	109.551.660	366.033	9.248.010,90
	2012	67.050.781.893	6.016.883	884.376.758	437.001	9.695.979,84
	2013	66.710.859.953	6.223.576	1.382.653.942	417.068	10.177.432,51
	2014	159.304.338.220	6.625.928	1.972.501.150	431.612	10.639.792,32
	2015	196.009.244	7.183.640	3.073.735.274	397.984	11.152.363,12
	2016	206.278.866	7.668.782	4.881.697.466	429.476	11.697.446,94
Sleman	2010	163.632.984.321,97	46.505.525,79	32.668.879.672,00	593.046	21.481.644
	2011	226.723.271.088,47	50.019.306,85	35.895.365.169,07	593.046	22.645.851,90
	2012	301.069.539.284,13	44.968.623,39	48.975.872.016	587.949	23.957.112,76
	2013	455.998.564.708,83	32.415.786,53	62.547.222.536,32	574.273	25.367.414,23
	2014	573.337.599.560,11	40.976.227,96	77.779.907.952	616.023	26.713.071,25
	2015	643.130.079.828,03	44.840.906,73	91.434.201.042	399.453	28.098.006,87
	2016	717.151.176.028,57	33.448.303,36	118.468.738.360	659.305	29.573.894,96
Yogyakarta City	2010	179.423,64	21.060.982,16	45.804.679.179	214.342	17.202.154,00
	2011	228.870,56	117.685.291,26	51.681.357.955	214.342	18.206.089,70
	2012	338.839,61	120.740.149,64	72.199.315.171	232.088	19.189.074,78
	2013	385.920,17	17.217.090,67	87.331.577.240	208.438	20.239.557,65
	2014	470.634,76	16.596.486,46	106.789.831.895	230.679	21.328.763,56
	2015	510.548,83	13.060.083,64	106.789.831.895	222.326	22.379.014,53
	2016	540.504,30	20.376.996,01	150.950.199.189	255.013	23.524.926,79

Region	Year	LN_PAD	LN_EX	LN_HART	LN_EMP	LN_PDRB
KulonProgo	2010	24,598434	15,4778534	19,99408325	12,2490124	14,39281301
	2011	24,70765217	15,33527997	19,99408325	12,2490124	14,44109492
	2012	25,0277182	15,873095	19,99408325	12,35487189	15,5157299
	2013	25,28752562	16,29691734	20,3825	12,34553019	15,56325898
	2014	25,79091494	16,52877745	20,3802765	12,40304059	15,60798918
	2015	25,86388983	16,68120955	20,74434307	12,39319931	15,65316645
	2016	25,91774022	16,892267	21,048246	12,40662288	15,69966338
Bantul	2010	18,21778906	17,32644793	20,00070097	13,10362083	16,30987725
	2011	25,58230342	17,54291298	21,22671306	13,10362083	16,3593672
	2012	25,83884823	17,61285481	22,02604246	13,15290228	16,41128914
	2013	26,13579482	17,81096333	22,31595669	13,08414216	16,46442764
	2014	26,60215239	19,54268534	22,45088689	13,12557023	16,51358612
	2015	26,69101256	19,14617902	22,61021295	13,1432321	16,56204533
	2016	26,72580559	18,1191889	22,84651308	13,2338654	16,61144857
Gunung Kidul	2010	24,47327617	15,45236128	18,10958196	12,81047877	15,99570629
	2011	24,72077674	15,51394641	18,51190678	12,81047877	16,03991905
	2012	24,92871611	15,61007991	20,60039373	12,98769076	16,08722191
	2013	24,92363359	15,64385522	21,04727064	12,94100456	16,13568333
	2014	25,79408229	15,706501	21,40256819	12,97528232	16,18011152
	2015	19,09367238	15,78731678	21,84615936	12,89416708	16,22716197
	2016	19,14473953	15,85266836	22,30875884	12,97032114	16,27488117
Sleman	2010	25,82089186	17,6550817	24,20968877	13,29302725	16,88270936
	2011	26,14699604	17,72791963	24,30387402	13,29302725	16,93548725
	2012	26,4306071	17,62147555	24,61459361	13,28439549	16,99177582
	2013	26,8457555	17,2941561	24,85918767	13,26086017	17,048976
	2014	27,07474056	17,52850265	25,07714898	13,33103958	17,10066356
	2015	27,18961284	22,22380156	25,23888544	12,89785139	17,1512092
	2016	27,2985525	17,32551162	25,49791495	13,39894153	17,2024026
Yogyakarta City	2010	12,09750499	16,8629327	24,54765209	12,27532815	16,66054517
	2011	12,34091188	18,5835246	24,66836297	12,27532815	16,71726669
	2012	12,73328215	18,60915127	25,0026964	12,35487189	16,76985165
	2013	12,86338581	16,66141309	25,19297794	12,24739691	16,82314955
	2014	13,06183762	16,62470157	25,39412855	12,34878241	16,87556712
	2015	13,14324156	16,38507109	25,39412855	12,31190005	16,92363423
	2016	13,20025787	16,82991718	25,74021581	12,4490698	16,97357113

B. ESTIMATION/REGRESSION RESULT

1.Fixed Effect Model

Dependent Variable: LN_PAD?
Method: Pooled EGLS (Cross-section SUR)
Date: 05/21/18 Time: 03:11
Sample: 2010 2016
Included observations: 7
Cross-sections included: 5
Total pool (balanced) observations: 35
Linear estimation after one-step weighting matrix

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-36.07991	12.20864	-2.955276	0.0066
LN_EX?	0.330328	0.101980	3.239142	0.0033
LN_HART?	0.352083	0.176986	1.989329	0.0573
LN_EMP?	3.436579	1.175457	2.923611	0.0071
LN_PDRB?	0.071523	0.179823	0.397740	0.6941
Fixed Effects (Cross)				
_KULONPROGO--C	5.377723			
_BANTUL--C	1.158080			
_GUNUNGKIDUL--C	1.442584			
_SLEMAN--C	1.255746			
_YOGYAKARTA-CITY--C	-9.234134			
Effects Specification				
Cross-section fixed (dummy variables)				
Weighted Statistics				
R-squared	0.997377	Mean dependent var	50.80348	
Adjusted R-squared	0.996570	S.D. dependent var	122.9097	
S.E. of regression	0.962579	Sum squared resid	24.09053	
F-statistic	1235.837	Durbin-Watson stat	1.526177	
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.891248	Mean dependent var	22.63754	
Sum squared resid	109.0526	Durbin-Watson stat	0.987552	

1. RANDOM EFFECT MODEL

Dependent Variable: LN_PAD?
Method: Pooled EGLS (Cross-section random effects)
Date: 05/18/18 Time: 23:20
Sample: 2010 2016
Included observations: 7
Cross-sections included: 5
Total pool (balanced) observations: 35
Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-41.61508	11.52947	-3.609451	0.0011
LN_EX?	1.061433	0.299056	3.549281	0.0013
LN_HART?	-0.048801	0.300550	-0.162372	0.8721
LN_EMP?	11.66830	1.128215	10.34226	0.0000
LN_PDRB?	-6.242964	1.103736	-5.656211	0.0000
Random Effects (Cross)				
_KULONPROGO--C	0.000000			
_BANTUL--C	0.000000			
_GUNUNGKIDUL--C	0.000000			
_SLEMAN--C	0.000000			
_YOGYAKARTA--C	0.000000			
Effects Specification				
			S.D.	Rho
Cross-section random			0.000000	0.0000
Idiosyncratic random			2.009891	1.0000
Weighted Statistics				
R-squared	0.730354	Mean dependent var		22.63754
Adjusted R-squared	0.694401	S.D. dependent var		5.430747
S.E. of regression	3.002169	Sum squared resid		270.3906
F-statistic	20.31427	Durbin-Watson stat		0.614341
Prob(F-statistic)	0.000000			
Unweighted Statistics				
R-squared	0.730354	Mean dependent var		22.63754
Sum squared resid	270.3906	Durbin-Watson stat		0.614341

2. COMMON EFFECT MODEL

Dependent Variable: PAD
 Method: Panel Least Squares
 Date: 05/19/18 Time: 00:28
 Sample: 2010 2016
 Periods included: 7
 Cross-sections included: 5
 Total panel (balanced) observations: 35

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PDRB	-6.242964	1.648648	-3.786718	0.0007
HART	-0.048801	0.448930	-0.108705	0.9142
EX	1.061433	0.446699	2.376171	0.0241
EMP	11.66830	1.685212	6.923933	0.0000
C	-41.61507	17.22155	-2.416453	0.0220
R-squared	0.730354	Mean dependent var		22.63754
Adjusted R-squared	0.694401	S.D. dependent var		5.430747
S.E. of regression	3.002169	Akaike info criterion		5.168111
Sum squared resid	270.3906	Schwarz criterion		5.390304
Log likelihood	-85.44194	Hannan-Quinn criter.		5.244812
F-statistic	20.31427	Durbin-Watson stat		0.614341
Prob(F-statistic)	0.000000			

3. 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	40.933988	4	0.0000

** WARNING: estimated cross-section random effects variance is zero.

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
LN_EX?	0.491882	1.061433	0.201321	0.2043
LN_HART?	-0.099439	-0.048801	0.149716	0.8959
LN_EMP?	4.282767	11.668296	37.188668	0.2259
LN_PDRB?	0.180619	-6.242964	1.742017	0.0000

Cross-section random effects test equation:
 Dependent Variable: LN_PAD?
 Method: Panel Least Squares
 Date: 05/18/18 Time: 23:25
 Sample: 2010 2016
 Included observations: 7
 Cross-sections included: 5

Total pool (balanced) observations: 35

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-41.26126	70.00637	-0.589393	0.5607
LN_EX?	0.491882	0.539217	0.912215	0.3700
LN_HART?	-0.099439	0.489945	-0.202959	0.8407
LN_EMP?	4.282767	6.201737	0.690575	0.4960
LN_PDRB?	0.180619	1.720538	0.104978	0.9172

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.895258	Mean dependent var	22.63754
Adjusted R-squared	0.863030	S.D. dependent var	5.430747
S.E. of regression	2.009891	Akaike info criterion	4.451072
Sum squared resid	105.0312	Schwarz criterion	4.851019
Log likelihood	-68.89376	Hannan-Quinn criter.	4.589134
F-statistic	27.77866	Durbin-Watson stat	1.087559
Prob(F-statistic)	0.000000		

4. CHOW TEST

Redundant Fixed Effects Tests

Pool: PANEL

Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	10.233497	(4,26)	0.0000
Cross-section Chi-square	33.096362	4	0.0000

Cross-section fixed effects test equation:

Dependent Variable: LN_PAD?

Method: Panel Least Squares

Date: 05/18/18 Time: 23:24

Sample: 2010 2016

Included observations: 7

Cross-sections included: 5

Total pool (balanced) observations: 35

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-41.61508	17.22155	-2.416453	0.0220
LN_EX?	1.061433	0.446699	2.376171	0.0241
LN_HART?	-0.048801	0.448930	-0.108705	0.9142
LN_EMP?	11.66830	1.685212	6.923933	0.0000
LN_PDRB?	-6.242964	1.648648	-3.786718	0.0007

R-squared	0.730354	Mean dependent var	22.63754
Adjusted R-squared	0.694401	S.D. dependent var	5.430747
S.E. of regression	3.002169	Akaike info criterion	5.168111
Sum squared resid	270.3906	Schwarz criterion	5.390304
Log likelihood	-85.44194	Hannan-Quinn criter.	5.244812
F-statistic	20.31427	Durbin-Watson stat	0.614341

Prob(F-statistic) 0.000000

5. MULTICOLLINEARITY TEST

	<u>KULON PROGO</u>	<u>BANTUL</u>	<u>GUNUNG KIDUL</u>	<u>SLEMAN</u>	<u>YOGYA KARTACITY</u>
<u>KULON PROGO</u>	1.000000	-0.349753	0.022612	-0.590395	-0.217076
<u>BANTUL</u>	-0.349753	1.000000	-0.254799	0.726015	0.241958
<u>GUNUNGKIDUL</u>	0.022612	-0.254799	1.000000	-0.299030	-0.395280
<u>SLEMAN</u>	-0.590395	0.726015	-0.299030	1.000000	0.681118
<u>YOGYA KARTACITY</u>	-0.217076	0.241958	-0.395280	0.681118	1.000000

6. HETEROSCEDASTICITY TEST

Dependent Variable: RESABS
 Method: Panel Least Squares
 Date: 05/19/18 Time: 00:20
 Sample: 2010 2016
 Periods included: 7
 Cross-sections included: 5
 Total panel (balanced) observations: 35

Variable	Coefficient	Std. Error	t-Statistic	Prob.
PDRB	0.216239	0.996894	0.216912	0.8300
HART	-0.014640	0.283878	-0.051573	0.9593
EX	-0.228582	0.312427	-0.731633	0.4709
EMP	-1.355353	3.593338	-0.377185	0.7091
C	19.12511	40.56228	0.471500	0.6412

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.446396	Mean dependent var	1.086786
Adjusted R-squared	0.276057	S.D. dependent var	1.368690
S.E. of regression	1.164548	Akaike info criterion	3.359577
Sum squared resid	35.26045	Schwarz criterion	3.759523
Log likelihood	-49.79259	Hannan-Quinn criter.	3.497638
F-statistic	2.620625	Durbin-Watson stat	1.206094
Prob(F-statistic)	0.030008		