

LAMPIRAN

LAMPIRAN 1

DATA MENTAH

No	Kab/Kota	Th	PAD	JKW	JOW	PP
1	Kab. Kulonprogo	2008	541467760	553724	14	4699714
2	Kab. Kulonprogo	2009	523516100	421951	15	4884318
3	Kab. Kulonprogo	2010	1610886594	444125	14	5016071
4	Kab. Kulonprogo	2011	1177811000	546797	14	5246146
5	Kab. Kulonprogo	2012	2110851769	596529	14	5475148
6	Kab. Kulonprogo	2013	2646017079	69585	14	5741660
7	Kab. Kulonprogo	2014	2544115778	904972	14	5992787
8	Kab. Kulonprogo	2015	3420774733	1289695	14	6281566
9	Kab. Bantul	2008	2273648275	1419284	7	11452289
10	Kab. Bantul	2009	4558527130	1447546	6	11799309
11	Kab. Bantul	2010	5098131002	1300042	7	12220436
12	Kab. Bantul	2011	7399158783	2378209	7	12728666
13	Kab. Bantul	2012	12529648331	2378209	8	13407021
14	Kab. Bantul	2013	14533814042	2037874	8	14138719
15	Kab. Bantul	2014	16046012057	2708816	8	14867408
16	Kab. Bantul	2015	18281328042	4519199	17	15610514
17	Kab. Gunungkidul	2008	1397507760	427071	7	8214674
18	Kab. Gunungkidul	2009	1699185380	538990	8	8542689
19	Kab. Gunungkidul	2010	1845743858	488805	9	8898485
20	Kab. Gunungkidul	2011	2309007231	688405	9	9248010
21	Kab. Gunungkidul	2012	8478767503	1279065	10	9695979
22	Kab. Gunungkidul	2013	8168857392	1822251	10	10177432
23	Kab. Gunungkidul	2014	17415255577	3685137	10	10177432
24	Kab. Gunungkidul	2015	24107812555	2642759	11	10639465
25	Kab. Sleman	2008	34624437759	2601333	29	20580581
26	Kab. Sleman	2009	31568235916	3593665	29	21229364
27	Kab. Sleman	2010	36634676263	2499877	23	21807644
28	Kab. Sleman	2011	39943756254	2490063	23	22645851
29	Kab. Sleman	2012	53194912852	3042232	28	23957112
30	Kab. Sleman	2013	68632185594	3612954	28	25367414
31	Kab. Sleman	2014	84780228453	4223958	28	26740537
32	Kab. Sleman	2015	104985102620	4950934	31	28159674
33	Kota Yogyakarta	2008	39341021095	2467383	17	15949557
34	Kota Yogyakarta	2009	46541889348	3428316	22	16453161
35	Kota Yogyakarta	2010	50472624960	3538139	23	17319226
36	Kota Yogyakarta	2011	56368254594	3197312	23	18206089
37	Kota Yogyakarta	2012	76842342512	4083605	25	19189074
38	Kota Yogyakarta	2013	94840264727	4673366	25	20239557
39	Kota Yogyakarta	2014	116146936925	5251352	25	21312143
40	Kota Yogyakarta	2015	116146936925	5619231	25	22412176

LAMPIRAN 2

Data yang sudah di LN menggunakan Microsoft Exel 2010

No	Kab/Kota	Th	LNPAD	LNJKW	LNJOW	LNPP
1	Kab. Kulonprogo	2008	20.110	13.224	2.639	15.363
2	Kab. Kulonprogo	2009	20.076	12.953	2.708	15.402
3	Kab. Kulonprogo	2010	21.200	13.004	2.639	15.428
4	Kab. Kulonprogo	2011	20.887	13.212	2.639	15.473
5	Kab. Kulonprogo	2012	21.470	13.299	2.639	15.516
6	Kab. Kulonprogo	2013	21.696	11.150	2.639	15.563
7	Kab. Kulonprogo	2014	21.657	13.716	2.639	15.606
8	Kab. Kulonprogo	2015	21.953	14.070	2.639	15.653
9	Kab. Bantul	2008	21.545	14.166	1.946	16.254
10	Kab. Bantul	2009	22.240	14.185	1.792	16.284
11	Kab. Bantul	2010	22.352	14.078	1.946	16.319
12	Kab. Bantul	2011	22.725	14.682	1.946	16.359
13	Kab. Bantul	2012	23.251	14.682	2.079	16.411
14	Kab. Bantul	2013	23.400	14.527	2.079	16.464
15	Kab. Bantul	2014	23.499	14.812	2.079	16.515
16	Kab. Bantul	2015	23.629	15.324	2.833	16.563
17	Kab. Gunungkidul	2008	21.058	12.965	1.946	15.921
18	Kab. Gunungkidul	2009	21.253	13.197	2.079	15.961
19	Kab. Gunungkidul	2010	21.336	13.100	2.197	16.001
20	Kab. Gunungkidul	2011	21.560	13.442	2.197	16.040
21	Kab. Gunungkidul	2012	22.861	14.062	2.303	16.087
22	Kab. Gunungkidul	2013	22.824	14.416	2.303	16.136
23	Kab. Gunungkidul	2014	23.581	15.120	2.303	16.136
24	Kab. Gunungkidul	2015	23.906	14.787	2.398	16.180
25	Kab. Sleman	2008	24.268	14.772	3.367	16.840
26	Kab. Sleman	2009	24.175	15.095	3.367	16.871
27	Kab. Sleman	2010	24.324	14.732	3.135	16.898
28	Kab. Sleman	2011	24.411	14.728	3.135	16.935
29	Kab. Sleman	2012	24.697	14.928	3.332	16.992
30	Kab. Sleman	2013	24.952	15.100	3.332	17.049
31	Kab. Sleman	2014	25.163	15.256	3.332	17.102
32	Kab. Sleman	2015	25.377	15.415	3.434	17.153
33	Kota Yogyakarta	2008	24.396	14.719	2.833	16.585
34	Kota Yogyakarta	2009	24.564	15.048	3.091	16.616
35	Kota Yogyakarta	2010	24.645	15.079	3.135	16.667
36	Kota Yogyakarta	2011	24.755	14.978	3.135	16.717
37	Kota Yogyakarta	2012	25.065	15.222	3.219	16.770
38	Kota Yogyakarta	2013	25.275	15.357	3.219	16.823
39	Kota Yogyakarta	2014	25.478	15.474	3.219	16.875
40	Kota Yogyakarta	2015	25.478	15.542	3.219	16.925

Lampiran 3

Uji Asumsi Klasik

1. Uji Multikolinearitas

	LNPAD	LNJKW	LNJOW	LNPP
LNPAD	1	0.86533552	0.66722044	0.921315399
LNJKW	0.86533552	1	0.47431779	0.84058939
LNJOW	0.66722044	0.47431779	1	0.560531094
LNPP	0.9213154	0.84058939	0.56053109	1

Kriteria:

Tidak ditemukan indikasi multikolinieritas jika korelasi antar variabel independen $< 0,90$ (Imam Ghozali, 2006). Tabel di atas tidak menunjukkan koefisien korelasi antar peubah bebas yang lebih besar daripada 0,9. Dengan demikian, tidak ditemukan indikasi adanya problem multikolinieritas.

2. Uji Heteroskedastisitas

Dependent Variable: ARESID
 Method: Least Squares
 Date: 01/26/17 Time: 10:57
 Sample: 1 40
 Included observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.555246	1.713708	0.907532	0.3702
LNJKW	-0.148148	0.084884	-1.745293	0.0895
LNJOW	0.116777	0.103585	1.127362	0.2670
LNPP	0.039515	0.161119	0.245255	0.8077
R-squared	0.151606	Mean dependent var		0.388975
Adjusted R-squared	0.080907	S.D. dependent var		0.288091
S.E. of regression	0.276191	Akaike info criterion		0.359189
Sum squared resid	2.746128	Schwarz criterion		0.528077
Log likelihood	-3.183787	Hannan-Quinn criter.		0.420254
F-statistic	2.144373	Durbin-Watson stat		2.063598
Prob(F-statistic)	0.111663			

Kriteria:

Tidak terjadi problem heteroskedastisitas jika pengaruh peubah bebas terhadap nilai residu absolut (RESABS) tidak bermakna ($p > 0,05$) ((Imam Ghozali, 2014: 52). Hasil di atas menunjukkan tidak adanya pengaruh yang bermakna dari peubah bebas terhadap nilai absolut residu (resabs) karena semua nilai p bernilai lebih besar dari 0,05.

Lampiran 4

Common Effect Model

Dependent Variable: LNPPAD?
 Method: Pooled Least Squares
 Date: 01/26/17 Time: 11:11
 Sample: 2008 2015
 Included observations: 8
 Cross-sections included: 5
 Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-12.72719	3.151216	-4.038820	0.0003
LNJKW?	0.519096	0.156082	3.325786	0.0020
LNJOW?	0.688042	0.190460	3.612533	0.0009
LNPP?	1.629373	0.296274	5.499550	0.0000
R-squared	0.909745	Mean dependent var		23.17731
Adjusted R-squared	0.902224	S.D. dependent var		1.624142
S.E. of regression	0.507855	Akaike info criterion		1.577398
Sum squared resid	9.285003	Schwarz criterion		1.746286
Log likelihood	-27.54796	Hannan-Quinn criter.		1.638463
F-statistic	120.9572	Durbin-Watson stat		0.965088
Prob(F-statistic)	0.000000			

Fixed Effect Model

Dependent Variable: LNPAD?
 Method: Pooled Least Squares
 Date: 01/26/17 Time: 11:12
 Sample: 2008 2015
 Included observations: 8
 Cross-sections included: 5
 Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-63.57435	11.39646	-5.578431	0.0000
LNJKW?	0.275789	0.131812	2.092284	0.0444
LNJOW?	-0.099424	0.461294	-0.215532	0.8307
LNPP?	5.084555	0.767911	6.621281	0.0000
Fixed Effects (Cross)				
_KULONPROGO--C	2.548835			
_BANTUL--C	-0.769722			
_GUNUNGKIDUL--C	0.615816			
_SLEMAN--C	-1.899472			
_YOGYAKARTA--C	-0.495458			

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.958090	Mean dependent var	23.17731
Adjusted R-squared	0.948923	S.D. dependent var	1.624142
S.E. of regression	0.367061	Akaike info criterion	1.010279
Sum squared resid	4.311480	Schwarz criterion	1.348055
Log likelihood	-12.20558	Hannan-Quinn criter.	1.132408
F-statistic	104.5068	Durbin-Watson stat	1.230158
Prob(F-statistic)	0.000000		

Random Effect Model

Dependent Variable: LNPPAD?
 Method: Pooled EGLS (Cross-section random effects)
 Date: 01/26/17 Time: 11:12
 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	-19.92605	4.569897	-4.360284	0.0001
LNJKW?	0.403598	0.121322	3.326681	0.0020
LNJOW?	0.558701	0.272746	2.048428	0.0479
LNPP?	2.192626	0.341501	6.420550	0.0000
Random Effects (Cross)				
_KULONPROGO--C	0.257653			
_BANTUL--C	-0.194403			
_GUNUNGKIDUL--C	0.142030			
_SLEMAN--C	-0.440864			
_YOGYAKARTA--C	0.235584			

Effects Specification		S.D.	Rho
Cross-section random		0.280539	0.3687
Idiosyncratic random		0.367061	0.6313

Weighted Statistics			
R-squared	0.790767	Mean dependent var	9.730950
Adjusted R-squared	0.773331	S.D. dependent var	0.931170
S.E. of regression	0.443328	Sum squared resid	7.075426
F-statistic	45.35231	Durbin-Watson stat	1.014910
Prob(F-statistic)	0.000000		

Unweighted Statistics			
R-squared	0.895896	Mean dependent var	23.17731
Sum squared resid	10.70975	Durbin-Watson stat	0.670504

Lampiran 5

Pemilihan Model Terbaik

1. Chow Test

Dilakukan untuk membandingkan atau memilih mana yang terbaik antara Common Effect Model atau Fixed Effect Model.

Redundant Fixed Effects Tests
Pool: AHMAD
Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	9.228428	(4,32)	0.0000
Cross-section Chi-square	30.684771	4	0.0000

Cross-section fixed effects test equation:

Dependent Variable: PAD?

Method: Panel Least Squares

Date: 01/26/17 Time: 08:09

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-12.72719	3.151216	-4.038820	0.0003
LNJKW?	0.519096	0.156082	3.325786	0.0020
LNJOW?	0.688042	0.190460	3.612533	0.0009
LNPP?	1.629373	0.296274	5.499550	0.0000
R-squared	0.909745	Mean dependent var		23.17731
Adjusted R-squared	0.902224	S.D. dependent var		1.624142
S.E. of regression	0.507855	Akaike info criterion		1.577398
Sum squared resid	9.285003	Schwarz criterion		1.746286
Log likelihood	-27.54796	Hannan-Quinn criter.		1.638463
F-statistic	120.9572	Durbin-Watson stat		0.965088
Prob(F-statistic)	0.000000			

Kriteria:

Perhatikan nilai probabilitas (p) untuk Cross-Section F. Jika nilai $p > 0,05$ maka model yang terpilih adalah Common Effect Model. Tetapi jika $p < 0,05$ maka model yang dipilih adalah Fixed Effect Model.

Hasil:

Nilai Cross-section F = 9.228428 dengan nilai $p = 0,000$.

Kesimpulan:

Fixed Effect Model lebih baik jika dibandingkan dengan Common Effect Model.

2. Hausman Test

Dilakukan untuk membandingkan atau memilih mana model yang terbaik antara Fixed Effect Model dan Random Effect Model.

Correlated Random Effects - Hausman Test

Pool: AHMAD

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	19.514132	3	0.0002

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
LNJKW?	0.275789	0.403598	0.002656	0.0131
LNJOW?	-0.099424	0.558701	0.138402	0.0769
LNPP?	5.084555	2.192626	0.473064	0.0000

Cross-section random effects test equation:

Dependent Variable: PAD?

Method: Panel Least Squares

Date: 01/26/17 Time: 08:11

Sample: 2008 2015

Included observations: 8

Cross-sections included: 5

Total pool (balanced) observations: 40

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-63.57435	11.39646	-5.578431	0.0000
LNJKW?	0.275789	0.131812	2.092284	0.0444
LNJOW?	-0.099424	0.461294	-0.215532	0.8307
LNPP?	5.084555	0.767911	6.621281	0.0000

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.958090	Mean dependent var	23.17731
Adjusted R-squared	0.948923	S.D. dependent var	1.624142
S.E. of regression	0.367061	Akaike info criterion	1.010279
Sum squared resid	4.311480	Schwarz criterion	1.348055
Log likelihood	-12.20558	Hannan-Quinn criter.	1.132408
F-statistic	104.5068	Durbin-Watson stat	1.230158
Prob(F-statistic)	0.000000		

Kriteria:

Perhatikan nilai probabilitas (p) untuk Cross-Section Random. Jika nilai $p > 0,05$ maka model yang terpilih adalah Random Effect Model. Tetapi jika $p < 0,05$ maka model yang dipilih adalah Fixed Effect Model.

Hasil:

Nilai Chi Square Statistics pada Cross-section Random = 19.514132 dengan nilai $p = 0,0002$.

Kesimpulan:

Fixed Effect Model lebih baik jika dibandingkan dengan Random Effect Model.

Lampiran 6.

HASIL ESTIMASI UNTUK FIXED EFFECT MODEL:

Estimation Command:

```
=====
LS(CX=F) LNPAD? C LNJKW? LNJOW? LNPP?
```

Estimation Equations:

```
=====
LNPAD_KULONPROGO = C(5) + C(1) + C(2)*LNJKW_KULONPROGO +
C(3)*LNJOW_KULONPROGO + C(4)*LNPP_KULONPROGO
```

```
LNPAD_BANTUL = C(6) + C(1) + C(2)*LNJKW_BANTUL + C(3)*LNJOW_BANTUL +
C(4)*LNPP_BANTUL
```

```
LNPAD_GUNUNGKIDUL = C(7) + C(1) + C(2)*LNJKW_GUNUNGKIDUL +
C(3)*LNJOW_GUNUNGKIDUL + C(4)*LNPP_GUNUNGKIDUL
```

```
LNPAD_SLEMAN = C(8) + C(1) + C(2)*LNJKW_SLEMAN + C(3)*LNJOW_SLEMAN +
C(4)*LNPP_SLEMAN
```

```
LNPAD_YOGYAKARTA = C(9) + C(1) + C(2)*LNJKW_YOGYAKARTA +
C(3)*LNJOW_YOGYAKARTA + C(4)*LNPP_YOGYAKARTA
```

Substituted Coefficients:

```
=====
LNPAD_KULONPROGO = 2.54883537191 - 63.5743451302 +
0.275788548469*LNJKW_KULONPROGO - 0.0994236187195*LNJOW_KULONPROGO +
5.08455499582*LNPP_KULONPROGO
```

```
LNPAD_BANTUL = -0.769722332933 - 63.5743451302 + 0.275788548469*LNJKW_BANTUL -
0.0994236187195*LNJOW_BANTUL + 5.08455499582*LNPP_BANTUL
```

```
LNPAD_GUNUNGKIDUL = 0.615816335811 - 63.5743451302 +
0.275788548469*LNJKW_GUNUNGKIDUL - 0.0994236187195*LNJOW_GUNUNGKIDUL +
5.08455499582*LNPP_GUNUNGKIDUL
```

```
LNPAD_SLEMAN = -1.89947182963 - 63.5743451302 + 0.275788548469*LNJKW_SLEMAN -
0.0994236187195*LNJOW_SLEMAN + 5.08455499582*LNPP_SLEMAN
```

```
LNPAD_YOGYAKARTA = -0.495457545154 - 63.5743451302 +
0.275788548469*LNJKW_YOGYAKARTA - 0.0994236187195*LNJOW_YOGYAKARTA +
5.08455499582*LNPP_YOGYAKARTA
```