

LAMPIRAN

1. COMMON EFFECT

```
. reg lJTK lJUU lNO lPDRB
```

Source	SS	df	MS	Number of obs = 125		
Model	489.4342	3	163.144733	F(3, 121) =	913.84	
Residual	21.6018222	121	.178527456	Prob > F =	0.0000	
Total	511.036022	124	4.12125824	R-squared =	0.9577	
				Adj R-squared =	0.9567	
				Root MSE =	.42253	

lJTK	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
lJUU	.7681293	.0397173	19.34	0.000	.6894985	.8467601
lNO	.2451225	.0188396	13.01	0.000	.2078245	.2824204
lPDRB	.1680886	.0389673	4.31	0.000	.0909425	.2452346
_cons	.2846058	.4609007	0.62	0.538	-.6278688	1.19708

2. FIXED EFFECT

```
. xtreg lJTK lJUU lNO lPDRB, fe
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```
Fixed-effects (within) regression      Number of obs   =      125
Group variable: Kabkot                 Number of groups =       25

R-sq:  within = 0.4168                  Obs per group:  min =       5
      between = 0.9311                      avg =      5.0
      overall  = 0.9249                      max =       5

corr(u_i, Xb) = 0.7983                  F(3,97)         =      23.11
                                           Prob > F        =      0.0000
```

lJTK	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
lJUU	.681036	.1139807	5.98	0.000	.4548158	.9072562
lNO	.04682	.0159799	2.93	0.004	.0151044	.0785357
lPDRB	.0769346	.0195856	3.93	0.000	.0380627	.1158065
_cons	3.938401	.4037526	9.75	0.000	3.137064	4.739738
sigma_u	.90354404					
sigma_e	.17105255					
rho	.96540064	(fraction of variance due to u_i)				

```
F test that all u_i=0:      F(24, 97) =      26.72      Prob > F = 0.0000
```

3. RANDOM EFFECT

```
. xtreg lJTK lJUU lNO lPDRB, re
```

```
Random-effects GLS regression           Number of obs   =       125
Group variable: Kabkot                  Number of groups =        25

R-sq:  within = 0.4101                  Obs per group:  min =         5
      between = 0.9375                      avg =         5.0
      overall = 0.9310                      max =         5

Wald chi2(3) =       625.84
corr(u_i, X) = 0 (assumed)              Prob > chi2     =       0.0000
```

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
lJTK						
lJUU	.9880738	.0556786	17.75	0.000	.8789457	1.097202
lNO	.0894253	.0177405	5.04	0.000	.0546546	.124196
lPDRB	.0943101	.0232769	4.05	0.000	.0486882	.139932
_cons	2.444099	.3371987	7.25	0.000	1.783202	3.104997
sigma_u	.32108691					
sigma_e	.17105255					
rho	.77893692	(fraction of variance due to u_i)				

4. PERBANDINGAN VARIABEL

Variable	fe	re	ols
lJUU	.98807378***	.98807378***	.98807378***
lNO	.0894253***	.0894253***	.0894253***
lPDRB	.09431009***	.09431009***	.09431009***
_cons	2.4440995***	2.4440995***	2.4440995***
N	125	125	125
r2			
r2_a			

legend: * p<0.05; ** p<0.01; *** p<0.001

5. HAUSMAN TEST

```
. hausman re fe
```

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.
	(b) re	(B) fe		
1JUU	.9880738	.681036	.3070378	.
1NO	.0894253	.04682	.0426053	.007705
1PDRB	.0943101	.0769346	.0173755	.0125785

b = consistent under Ho and Ha; obtained from xtreg
 B = inconsistent under Ha, efficient under Ho; obtained from xtreg

Test: Ho: difference in coefficients not systematic

```
chi2(3) = (b-B)'[(V_b-V_B)^(-1)](b-B)
          = 18.33
Prob>chi2 = 0.0004
(V_b-V_B is not positive definite)
```

6. HETEROS

```
. reg 1JTK 1JUU 1NO 1PDRB
```

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Total	511.036022	124	4.12125824	R-squared =	0.9577	
				Adj R-squared =	0.9567	
				Root MSE =	.42253	

	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
1JTK						
1JUU	.7681293	.0397173	19.34	0.000	.6894985	.8467601
1NO	.2451225	.0188396	13.01	0.000	.2078245	.2824204
1PDRB	.1680886	.0389673	4.31	0.000	.0909425	.2452346
_cons	.2846058	.4609007	0.62	0.538	-.6278688	1.19708

```
. hettest
```

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance
 Variables: fitted values of 1JTK

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chi2(1) = 1.14
Prob > chi2 = 0.2850
```

7. MULTIKOL

```
. reg lJTK lJUU lNO lPDRB
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Source	SS	df	MS			
Model	489.4342	3	163.144733	Number of obs =	125	
Residual	21.6018222	121	.178527456	F(3, 121) =	913.84	
Total	511.036022	124	4.12125824	Prob > F =	0.0000	
				R-squared =	0.9577	
				Adj R-squared =	0.9567	
				Root MSE =	.42253	

lJTK	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
lJUU	.7681293	.0397173	19.34	0.000	.6894985	.8467601
lNO	.2451225	.0188396	13.01	0.000	.2078245	.2824204
lPDRB	.1680886	.0389673	4.31	0.000	.0909425	.2452346
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```
. estat vif
```

Variable	VIF	1/VIF
lJUU	2.66	0.375618
lNO	2.34	0.426726
lPDRB	1.83	0.545662
Mean VIF	2.28	

DATA

Kabupaten/kota	Tahun	jumlah tenaga kerja	jumlah unit usaha	nilai output	pdrb
Tapanuli Selatan	2011	343	2	55828	563799
Tapanuli Selatan	2012	414	2	114146	615049
Tapanuli Selatan	2013	410	2	10655	722261
Tapanuli Selatan	2014	403	2	91673	754278
Tapanuli Selatan	2015	402	2	113412	792124
Tapanuli Tengah	2011	376	5	1151	470252
Tapanuli Tengah	2012	1284	7	91274	494304
Tapanuli Tengah	2013	1782	12	98093	519902
Tapanuli Tengah	2014	2094	12	88808	546085
Tapanuli Tengah	2015	2223	11	93923	573832
Tapanuli Utara	2011	117	1	19737	40024
Tapanuli Utara	2012	135	1	15212	419863
Tapanuli Utara	2013	194	1	16372	441977
Tapanuli Utara	2014	218	1	41349	464542
Tapanuli Utara	2015	155	1	34393	486895
Toba Samosir	2011	1347	11	72077	37927
Toba Samosir	2012	949	11	76365	398521
Toba Samosir	2013	934	11	80459	41785
Toba Samosir	2014	1162	11	135288	435507
Toba Samosir	2015	2510	12	122678	455317
LauhanBatu	2011	4294	19	713877	1535541
LauhanBatu	2012	3942	20	7561	1628998
LauhanBatu	2013	3661	20	458301	1726341
LauhanBatu	2014	3523	20	519118	181641
LauhanBatu	2015	3598	20	41961	1907993
Asahan	2011	8087	115	70274	169397
Asahan	2012	8712	102	681743	1787241
Asahan	2013	6963	89	705751	1889262
Asahan	2014	7481	89	934339	2000451
Asahan	2015	7344	94	748384	2111875
Simalungun	2011	5166	50	1046205	180248
Simalungun	2012	7158	48	769883	1911754
Simalungun	2013	8266	48	714276	2012201
Simalungun	2014	7791	50	641433	2119428
Simalungun	2015	7997	45	603857	2230543
Deli sendang	2011	47550	349	2166409	4525773
Deli sendang	2012	49715	359	1885218	4751387

Deli sendang	2013	50618	358	1998533	5189606
Deli sendang	2014	46492	362	388948	5579375
Deli sendang	2015	43789	321	2798295	5872246
Langkat	2011	7426	61	416494	1959474
Langkat	2012	6043	60	461871	2085868
Langkat	2013	6303	59	483763	2202948
Langkat	2014	6745	60	49533	2315701
Langkat	2015	5567	54	504199	2432161
Nias Selatan	2011	42	2	125	292311
Nias Selatan	2012	43	2	126	307446
Nias Selatan	2013	39	2	133	32174
Nias Selatan	2014	66	3	318	335639
Nias Selatan	2015	66	3	7182	350603
Humbang Hasundatan	2011	246	5	4631	279213
Humbang Hasundatan	2012	217	5	13159	294818
Humbang Hasundatan	2013	218	6	13078	30852
Humbang Hasundatan	2014	377	8	12918	324945
Humbang Hasundatan	2015	271	4	1653	341957
serdang bedagai	2011	9796	50	34202	1278006
serdang bedagai	2012	9652	55	346762	1355885
serdang bedagai	2013	10007	54	59988	1434576
serdang bedagai	2014	10492	54	734324	1508038
serdang bedagai	2015	9364	47	462235	1584175
Batu Bara	2011	4615	50	1115762	1694646
Batu Bara	2012	4949	27	2332547	1791636
Batu Bara	2013	4668	21	4652584	1867462
Batu Bara	2014	4663	22	3674168	1945938
Batu Bara	2015	4761	20	1069427	2025969
Padang Lawas Utara	2011	2155	6	634483	519965
Padang Lawas Utara	2012	2211	7	515649	553149
Padang Lawas Utara	2013	2191	7	427787	587151
Padang Lawas Utara	2014	2209	7	469234	622835
Padang Lawas Utara	2015	1080	9	269593	65983
Padang Lawas	2011	1058	5	240259	502006
Padang Lawas	2012	1101	5	256644	533202
Padang Lawas	2013	1097	5	425395	565962
Padang Lawas	2014	1204	6	577605	599731
Padang Lawas	2015	1590	8	493455	634153
Labuhan Batu selatan	2011	3630	19	943109	1224955
Labuhan Batu selatan	2012	2965	19	899423	1302449
Labuhan Batu selatan	2013	3584	23	774165	1381209

Labuhan Batu selatan	2014	4277	23	841275	1454752
Labuhan Batu selatan	2015	4068	20	1047568	1529417
Labuhan Batu utara	2011	3231	16	400408	1126226
Labuhan Batu utara	2012	3291	16	33034	1197844
Labuhan Batu utara	2013	3475	18	347636	1272904
Labuhan Batu utara	2014	3818	21	391923	1341453
Labuhan Batu utara	2015	4239	25	45539	1410937
Sibolga	2011	20	1	76	232488
Sibolga	2012	18	1	69	24585
Sibolga	2013	18	1	63	260501
Sibolga	2014	19	1	76	275857
Sibolga	2015	18	1	88	291451
Tanjung balai	2011	526	13	245639	36899
Tanjung balai	2012	748	16	205193	391955
Tanjung balai	2013	943	16	195843	415239
Tanjung balai	2014	858	16	204965	439258
Tanjung balai	2015	760	14	166374	46375
Pematangsiantar	2011	4452	35	245639	633331
Pematangsiantar	2012	4527	35	29437	675356
Pematangsiantar	2013	4767	35	397719	714186
Pematangsiantar	2014	5691	36	432598	759453
Pematangsiantar	2015	5500	35	490324	799232
Tebing tinggi	2011	1442	13	330059	260886
Tebing tinggi	2012	1437	14	230957	275887
Tebing tinggi	2013	1488	14	18995	292475
Tebing tinggi	2014	1590	14	143707	308405
Tebing tinggi	2015	1364	13	81522	323405
Medan	2011	37724	152	4231306	9767558
Medan	2012	41354	182	5146189	105162
Medan	2013	51542	169	13636809	11079542
Medan	2014	39073	176	7419061	11752808
Medan	2015	38280	172	5723679	12427748
Binjai	2011	1179	21	30699	523627
Binjai	2012	1015	18	981	555363
Binjai	2013	956	17	10217	589097
Binjai	2014	1004	16	11177	623429
Binjai	2015	917	14	11009	65712
Padansidempuan	2011	320	3	31016	278816
Padansidempuan	2012	302	3	20758	295272
Padansidempuan	2013	298	3	17712	312402
Padansidempuan	2014	291	3	179	328546

Padansidempuan	2015	288	3	15505	345108
Gunungsitoli	2011	21	1	96	21436
Gunungsitoli	2012	21	1	88	227615
Gunungsitoli	2013	21	1	12	241772
Gunungsitoli	2014	20	1	85	256526
Gunungsitoli	2015	20	1	103	27035