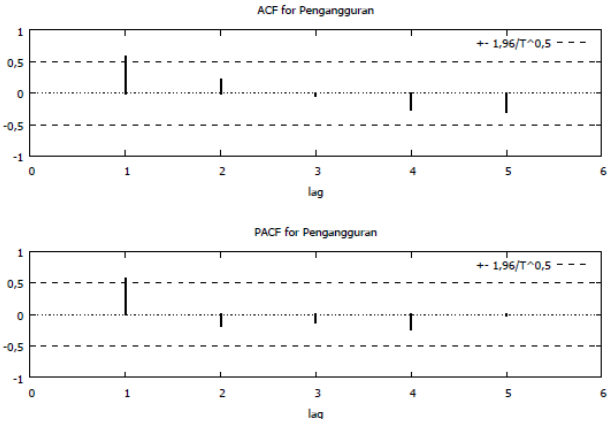
Lampiran 1. Pengangguran di 38 Kabupaten dan Kota Jawa Timur Tahun 2006 - 2015

Kabupaten atau Kota	Tahun	Pengangguran	Angkatan Kerja	UMK	Pertumbuhan Ekonomi	PDRB	Inflasi
KABUPATEN PACITAN	2006	209310	378500	345700	6	12583	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KABUPATEN PACITAN	2015	37697	349055	1150000	5	19106	1
KABUPATEN PONOROGO	2006	425702	554300	338500	6	10461	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KABUPATEN PONOROGO	2015	181698	496443	1150000	5	15525	1
KABUPATEN SUMENEP	2006	426972	627900	425000	6	15137	2
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KABUPATEN SUMENEP	2015	62868	622460	1253500	14	26555	2
KOTA KEDIRI	2006	133500	172215	501000	4	57551	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KOTA KEDIRI	2015	111396	145426	1339750	5	315396	1
KOTA SURABAYA	2006	1400000	1689800	578500	7	231205	4
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KOTA SURABAYA	2015	1015592	1465502	2710000	6	128820	3
KOTA BATU	2006	79381	97400	578300	7	34089	1
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
KOTA BATU	2015	25946	106777	1817000	7	51611	1

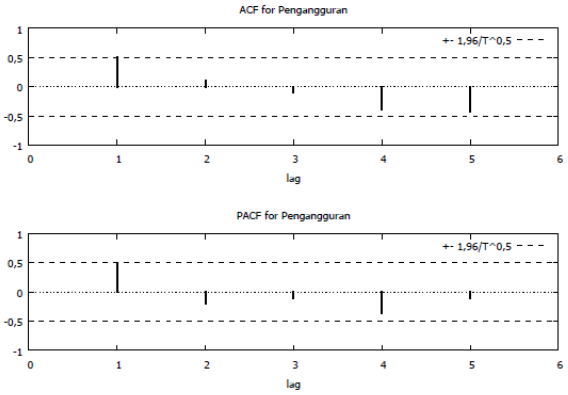
Lampiran 2. Correlogram untuk 38 Kabupaten atau Kota

Kabupaten Bangkalan



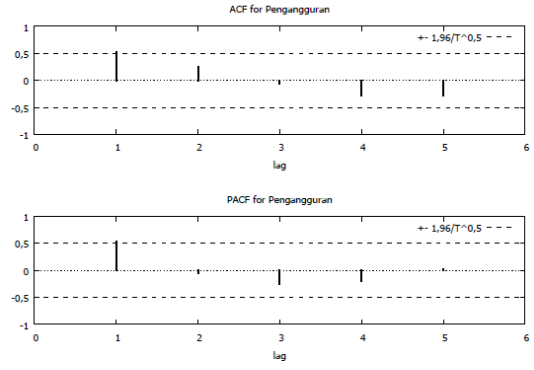
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5750	0,5750	4,4081	0,036
2	0,2131	-0,1755	5,0892	0,079
3	-0,0408	-0,1294	5,1178	0,163
4	-0,2652	-0,2280	6,5249	0,163
5	-0,2917	-0,0063	8,5676	0,128

Kabupaten Banyuwangi



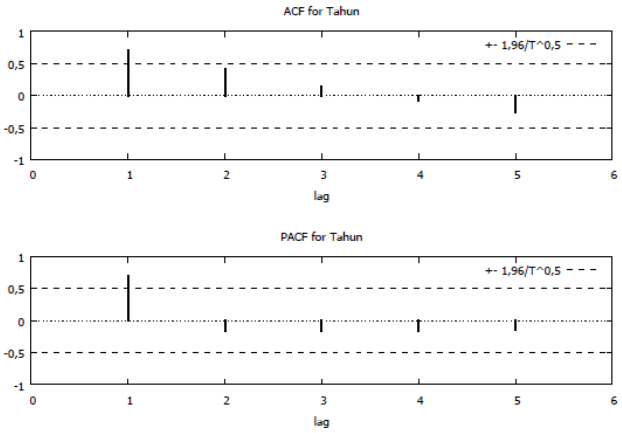
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5042	0,5042	3,3898	0,066
2	0,1121	-0,1906	3,5782	0,167
3	-0,1049	-0,1058	3,7667	0,288
4	-0,3821	-0,3570	6,6873	0,153
5	-0,4238	-0,1064	10,9977	0,051

Kabupaten Blitar



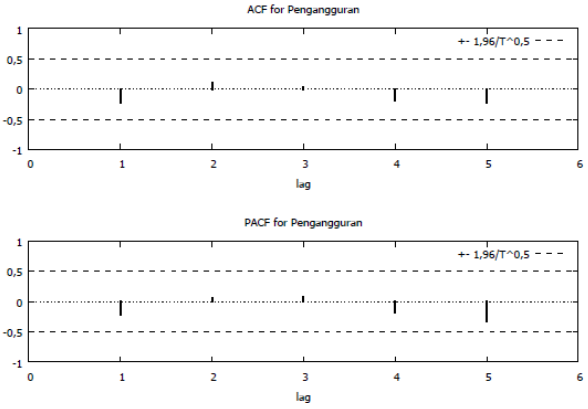
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5299	0,5299	3,7443	0,053
2	0,2499	-0,0431	4,6808	0,096
3	-0,0642	-0,2501	4,7515	0,191
4	-0,2768	-0,1979	6,2833	0,179
5	-0,2741	0,0156	8,0678	0,152

Kabupaten Bojonegoro



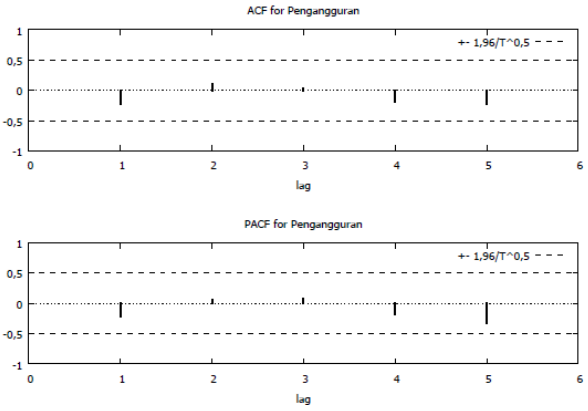
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7000	0,7000	6,5333	0,011
2	0,4121	-0,1527	9,0810	0,011
3	0,1485	-0,1549	9,4590	0,024
4	-0,0788	-0,1547	9,5831	0,048
5	-0,2576	-0,1492	11,1754	0,048

Kabupaten Bondowoso



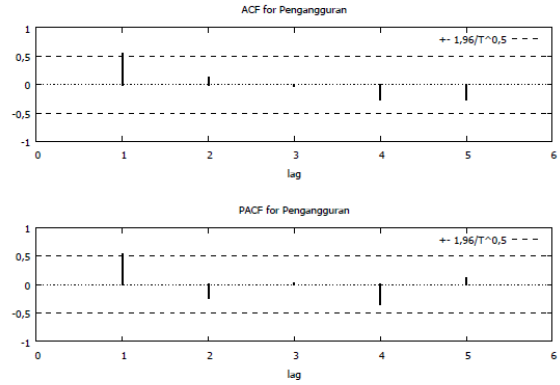
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	-0,2182	-0,2182	0,6349	0,426
2	0,1021	0,0572	0,7914	0,673
3	0,0404	0,0779	0,8194	0,845
4	-0,1799	-0,1716	1,4667	0,833
5	-0,2185	-0,3267	2,6129	0,759

Kabupaten Gresik



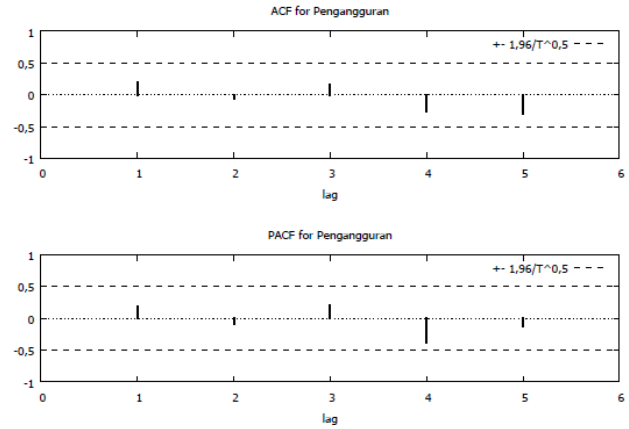
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	-0,2182	-0,2182	0,6349	0,426
2	0,1021	0,0572	0,7914	0,673
3	0,0404	0,0779	0,8194	0,845
4	-0,1799	-0,1716	1,4667	0,833
5	-0,2185	-0,3267	2,6129	0,759

Kabupaten Jember



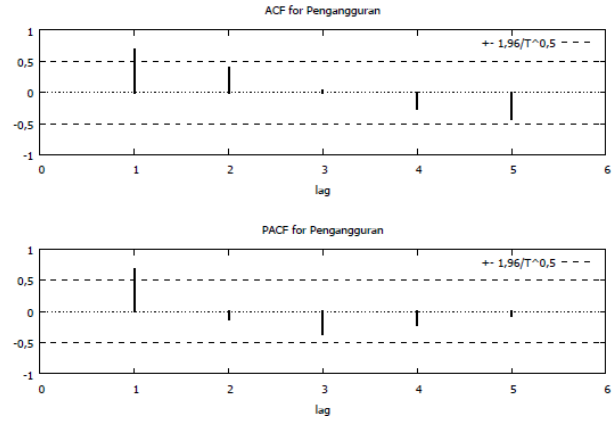
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5349	0,5349	3,8145	0,051
2	0,1213	-0,2308	4,0352	0,133
3	-0,0255	0,0267	4,0464	0,256
4	-0,2645	-0,3431	5,4457	0,245
5	-0,2595	0,1054	7,0617	0,216

Kabupaten Jombang



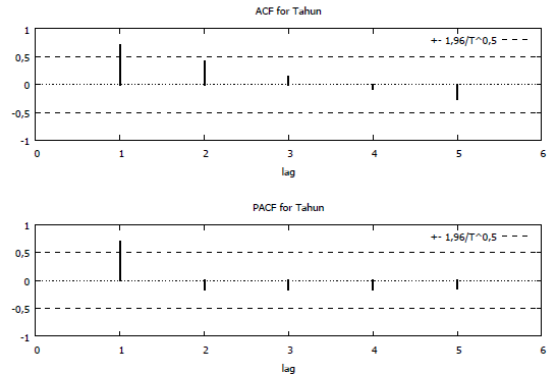
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,1944	0,1944	0,5037	0,478
2	-0,0517	-0,0930	0,5439	0,762
3	0,1586	0,1968	0,9753	0,807
4	-0,2639	-0,3771	2,3687	0,668
5	-0,2902	-0,1173	4,3903	0,495

Kabupaten Kediri



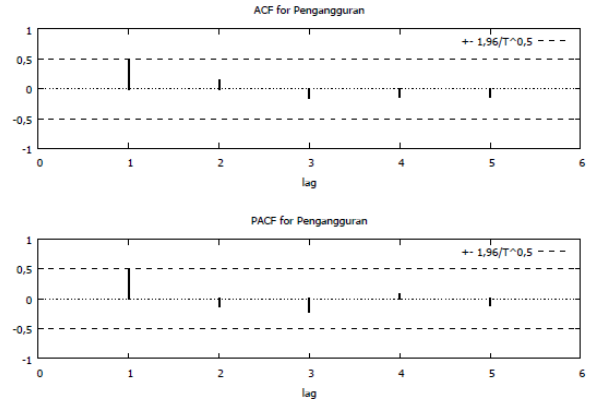
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,6821	0,6821	6,2032	0,013
2	0,3955	-0,1305	8,5491	0,014
3	0,0282	-0,3571	8,5627	0,036
4	-0,2651	-0,2165	9,9686	0,041
5	-0,4217	-0,0645	14,2360	0,014

Kabupaten Lamongan



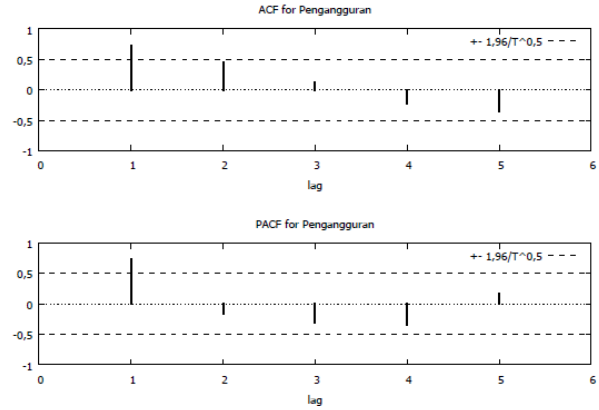
Lag	ACF	PACF	Q-Stat	nilai $-p$
1	0,7000	0,7000	6,5333	0,011
2	0,4121	-0,1527	9,0810	0,011
3	0,1485	-0,1549	9,4590	0,024
4	-0,0788	-0,1547	9,5831	0,048
5	-0,2576	-0,1492	11,1754	0,048

Kabupaten Lumajang



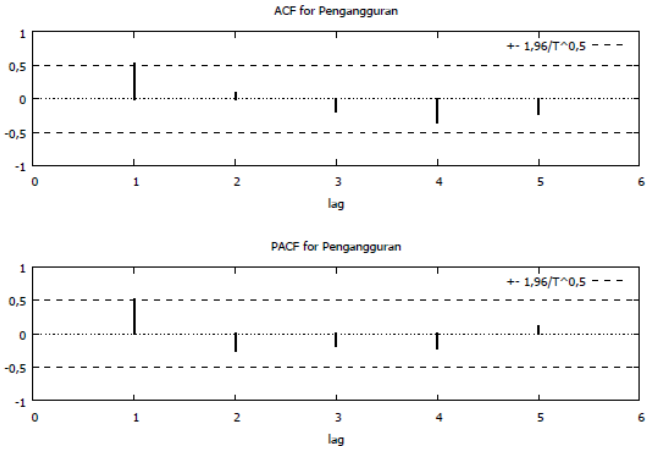
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,4790	0,4790	3,0586	0,080
2	0,1364	-0,1207	3,3376	0,188
3	-0,1456	-0,2120	3,7011	0,296
4	-0,1243	0,0726	4,0099	0,405
5	-0,1382	-0,1033	4,4686	0,484

Kabupaten Madiun



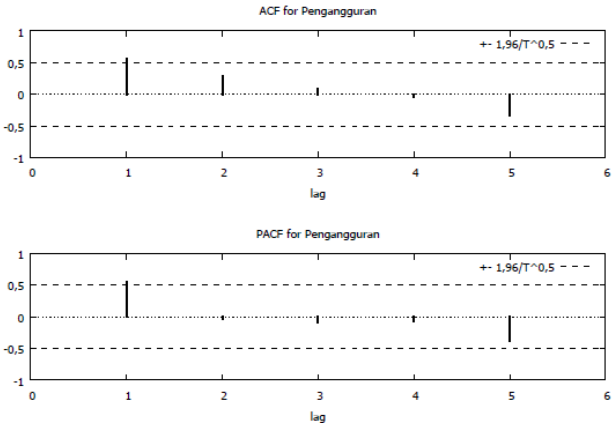
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7304	0,7304	7,1138	0,008
2	0,4551	-0,1682	10,2203	0,006
3	0,1230	-0,3143	10,4797	0,015
4	-0,2274	-0,3472	11,5141	0,021
5	-0,3492	0,1716	14,4400	0,013

Kabupaten Magetan



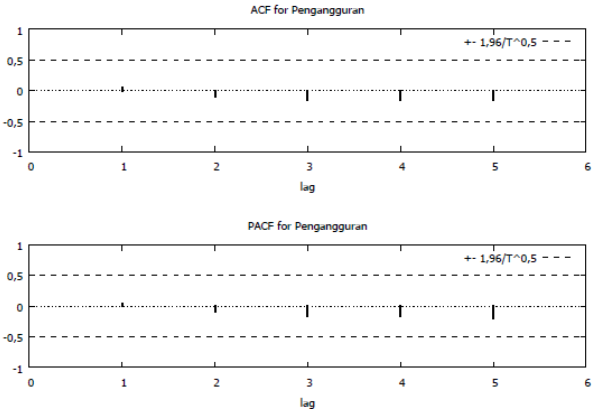
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5221	0,5221	3,6348	0,057
2	0,0885	-0,2531	3,7524	0,153
3	-0,1906	-0,1710	4,3755	0,224
4	-0,3594	-0,2135	6,9587	0,138
5	-0,2193	0,1103	8,1132	0,150

Kabupaten Malang



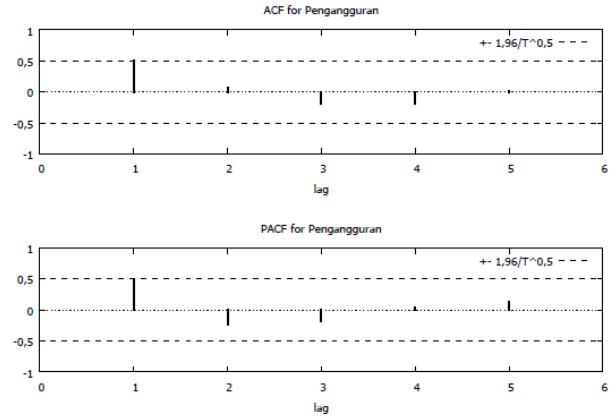
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5531	0,5531	4,0786	0,043
2	0,2855	-0,0294	5,3009	0,071
3	0,0899	-0,0813	5,4394	0,142
4	-0,0415	-0,0758	5,4738	0,242
5	-0,3410	-0,3891	8,2645	0,142

Kabupaten Mojokerto



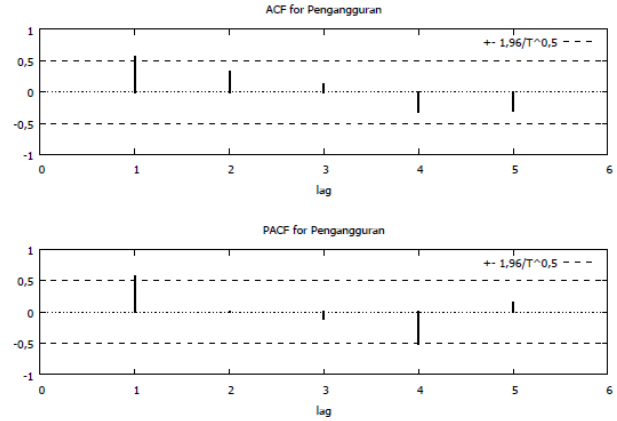
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,0418	0,0418	0,0233	0,879
2	-0,0889	-0,0908	0,1418	0,932
3	-0,1591	-0,1528	0,5760	0,902
4	-0,1600	-0,1614	1,0881	0,896
5	-0,1586	-0,1905	1,6920	0,890

Kabupaten Nganjuk



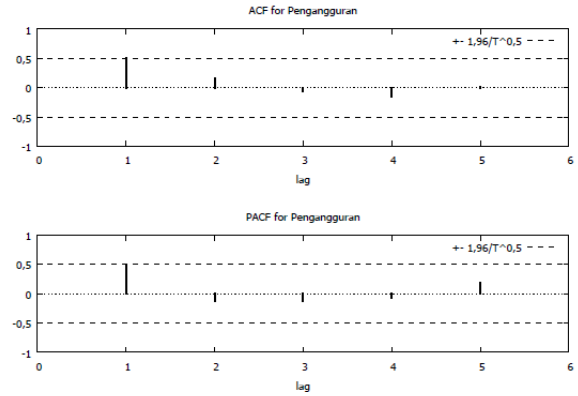
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5055	0,5055	3,4065	0,065
2	0,0760	-0,2411	3,4932	0,174
3	-0,1960	-0,1737	4,1516	0,246
4	-0,1908	0,0321	4,8793	0,300
5	0,0087	0,1395	4,8811	0,431

Kabupaten Ngawi



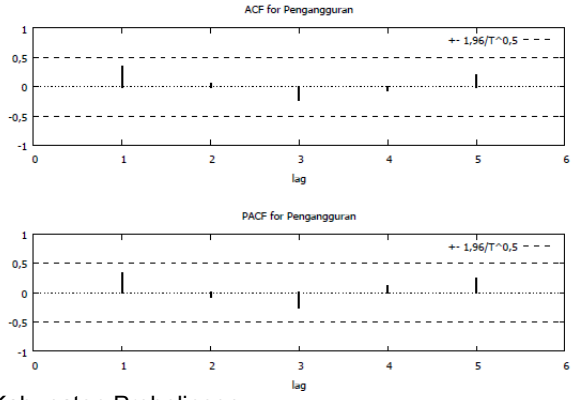
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5658	0,5658	4,2689	0,039
2	0,3266	0,0095	5,8690	0,053
3	0,1154	-0,1074	6,0973	0,107
4	-0,3178	-0,5128	8,1168	0,087
5	-0,3021	0,1571	10,3076	0,067

Kabupaten Pamekasan



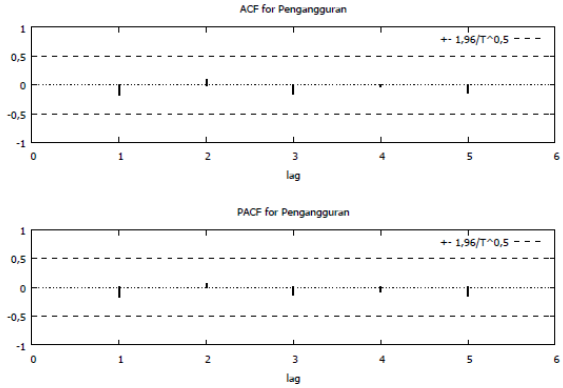
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5046	0,5046	3,3947	0,065
2	0,1594	-0,1277	3,7758	0,151
3	-0,0629	-0,1216	3,8436	0,279
4	-0,1509	-0,0628	4,2988	0,367
5	0,0124	0,1896	4,3025	0,507

Kabupaten Pasuruan



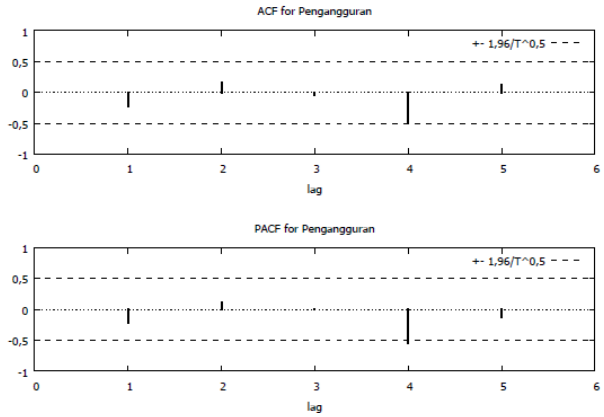
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,3345	0,3345	1,4919	0,222
2	0,0534	-0,0659	1,5346	0,464
3	-0,2242	-0,2501	2,3960	0,494
4	-0,0637	0,1146	2,4771	0,649
5	0,1900	0,2387	3,3437	0,647

Kabupaten Probolinggo



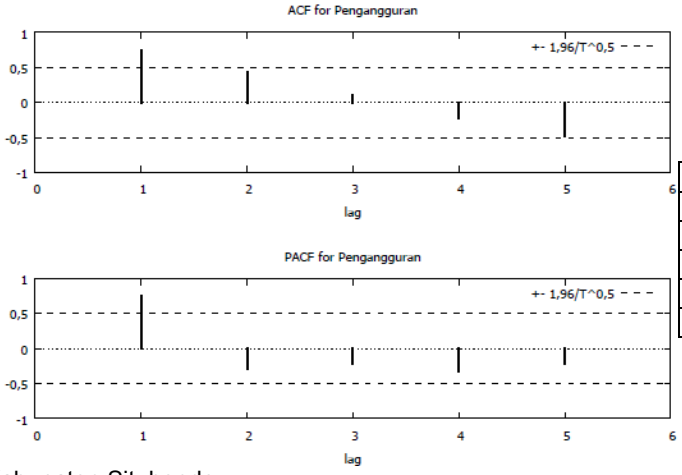
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	-0,1691	-0,1691	0,3814	0,537
2	0,0941	0,0674	0,5143	0,773
3	-0,1537	-0,1318	0,9193	0,821
4	-0,0218	-0,0751	0,9288	0,920
5	-0,1362	-0,1389	1,3740	0,927

Kabupaten Sampang



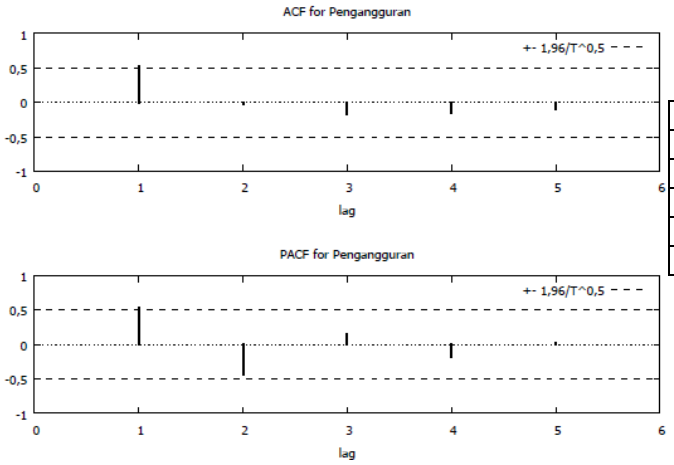
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	-0,2251	-0,2251	0,6756	0,411
2	0,1517	0,1064	1,0207	0,600
3	-0,0469	0,0081	1,0584	0,787
4	-0,4801	-0,5372	5,6692	0,225
5	0,1148	-0,1169	5,9854	0,308

Kabupaten Sidoarjo



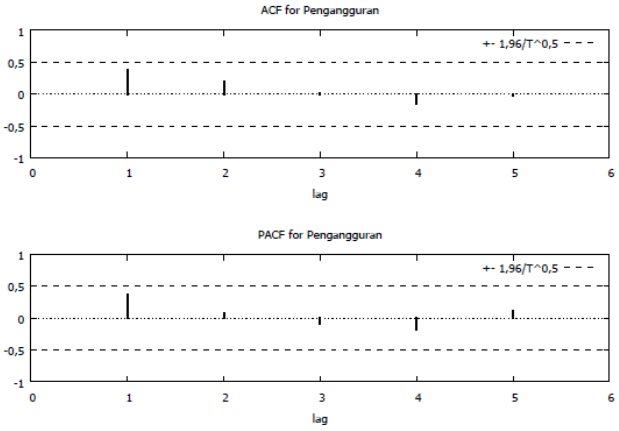
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7451	0,7451	7,4014	0,007
2	0,4258	-0,2906	10,1212	0,006
3	0,1027	-0,2215	10,3021	0,016
4	-0,2287	-0,3170	11,3480	0,023
5	-0,4814	-0,2077	16,9092	0,005

Kabupaten Situbondo



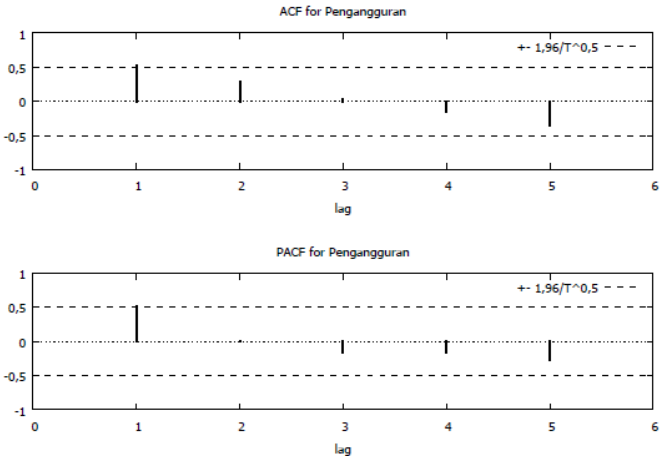
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5344	0,5344	3,8084	0,051
2	-0,0313	-0,4436	3,8230	0,148
3	-0,1735	0,1529	4,3389	0,227
4	-0,1424	-0,1714	4,7443	0,315
5	-0,1015	0,0156	4,9918	0,417

Kabupaten Sumenep



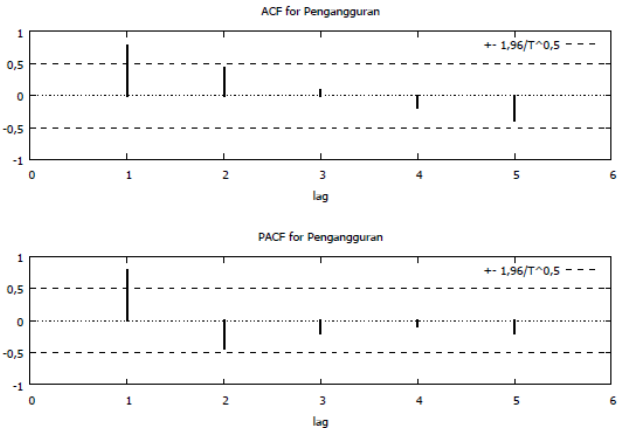
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,3705	0,3705	1,8302	0,176
2	0,2019	0,0749	2,4417	0,295
3	0,0183	-0,0917	2,4474	0,485
4	-0,1564	-0,1766	2,9366	0,568
5	-0,0234	0,1189	2,9497	0,708

Kabupaten Tuban



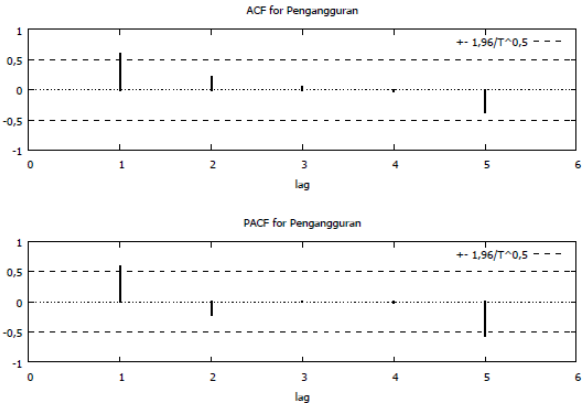
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5219	0,5219	3,6321	0,057
2	0,2817	0,0127	4,8221	0,090
3	0,0403	-0,1532	4,8499	0,183
4	-0,1473	-0,1605	5,2838	0,259
5	-0,3536	-0,2627	8,2843	0,141

Kota Batu



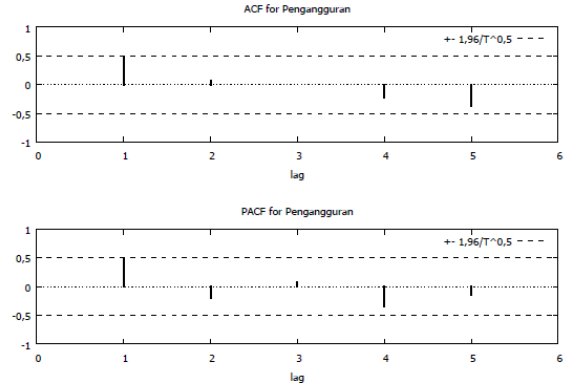
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7792	0,7792	8,0963	0,004
2	0,4345	-0,4398	10,9278	0,004
3	0,0824	-0,1968	11,0442	0,011
4	-0,1915	-0,0929	11,7774	0,019
5	-0,3905	-0,1986	15,4378	0,009

Kota Blitar



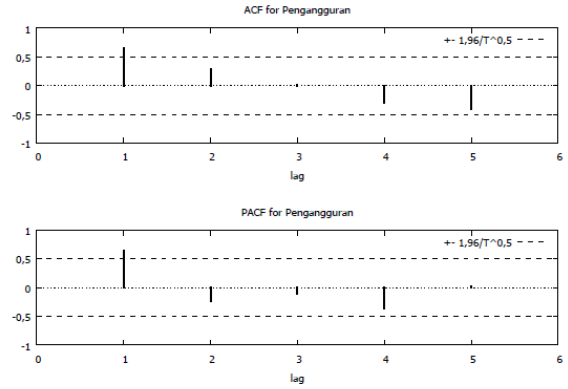
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5956	0,5956	4,7293	0,030
2	0,2209	-0,2074	5,4610	0,065
3	0,0427	0,0120	5,4922	0,139
4	-0,0167	-0,0113	5,4978	0,240
5	-0,3658	-0,5542	8,7095	0,121

Kota Kediri



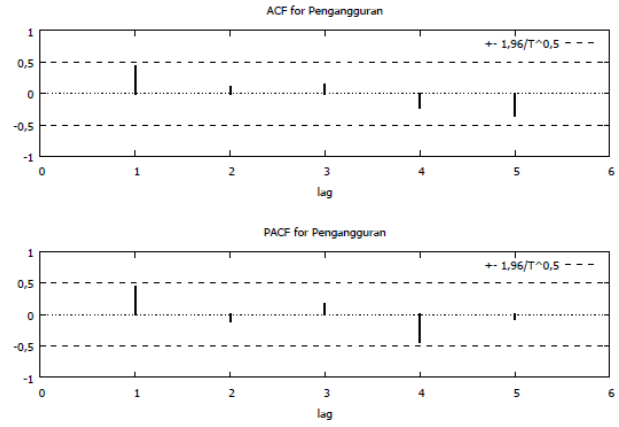
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,4754	0,4754	3,0139	0,083
2	0,0662	-0,2066	3,0796	0,214
3	0,0005	0,0820	3,0796	0,380
4	-0,2265	-0,3384	4,1060	0,392
5	-0,3737	-0,1399	7,4568	0,189

Kota Madiun



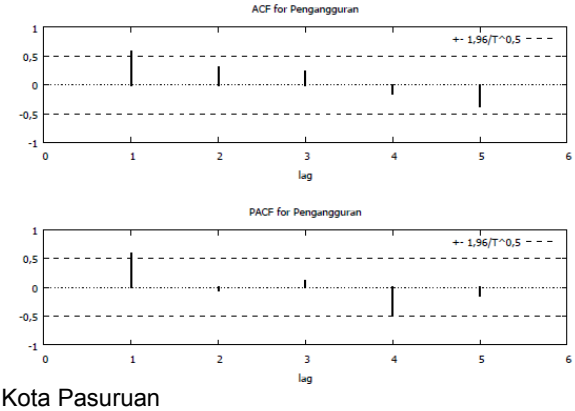
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,6464	0,6464	5,5714	0,018
2	0,2785	-0,2394	6,7345	0,034
3	0,0098	-0,1066	6,7361	0,081
4	-0,3025	-0,3655	8,5664	0,073
5	-0,4009	0,0235	12,4234	0,029

Kota Malang



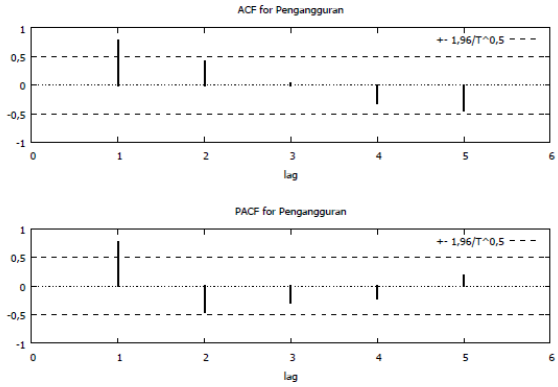
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,4393	0,4393	2,5732	0,109
2	0,1122	-0,1001	2,7621	0,251
3	0,1407	0,1633	3,1013	0,376
4	-0,2188	-0,4381	4,0587	0,398
5	-0,3568	-0,0732	7,1137	0,212

Kota Mojokerto



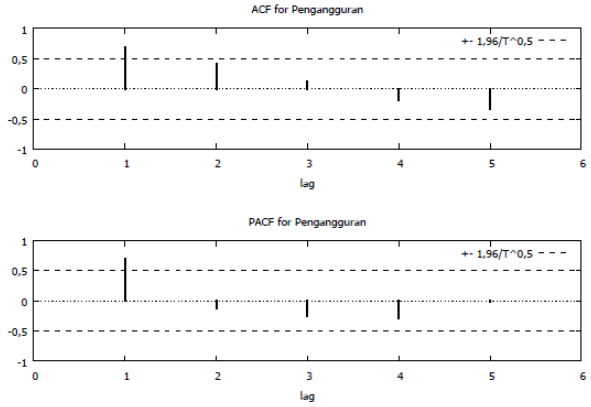
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5833	0,5833	4,5369	0,033
2	0,3018	-0,0583	5,9035	0,052
3	0,2255	0,1113	6,7755	0,079
4	-0,1466	-0,4834	7,2051	0,125
5	-0,3708	-0,1441	10,5058	0,062

Kota Pasuruan



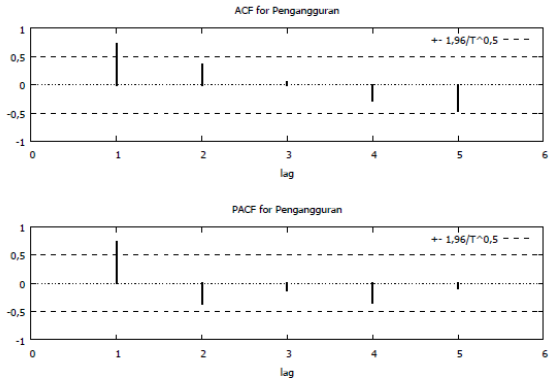
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7781	0,7781	8,0718	0,004
2	0,4235	-0,4609	10,7622	0,005
3	0,0348	-0,2831	10,7829	0,013
4	-0,3076	-0,2217	12,6750	0,013
5	-0,4418	0,1921	17,3595	0,004

Kota Probolinggo



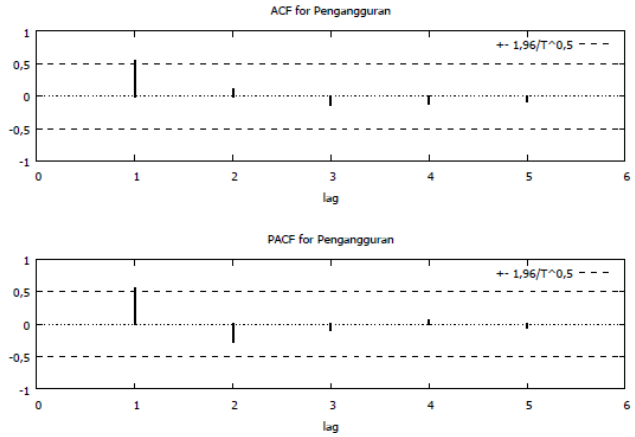
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,6938	0,6938	6,4186	0,011
2	0,4202	-0,1179	9,0678	0,011
3	0,1162	-0,2502	9,2992	0,026
4	-0,1890	-0,2797	10,0136	0,040
5	-0,3310	-0,0069	12,6438	0,027

Kota Surabaya



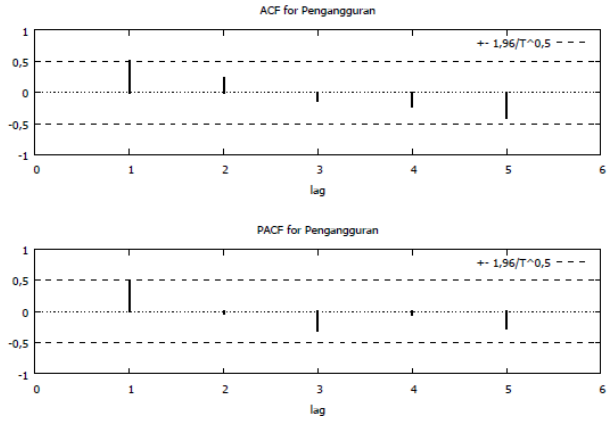
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,7263	0,7263	7,0331	0,008
2	0,3591	-0,3564	8,9671	0,011
3	0,0469	-0,1164	9,0047	0,029
4	-0,2704	-0,3520	10,4668	0,033
5	-0,4658	-0,0792	15,6737	0,008

Kabupaten Ponorogo



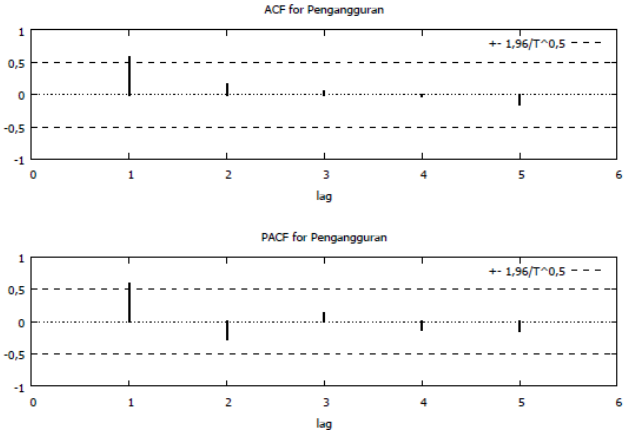
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5498	0,5498	4,0299	0,045
2	0,1118	-0,2729	4,2175	0,121
3	-0,1292	-0,0889	4,5036	0,212
4	-0,1177	0,0656	4,7806	0,311
5	-0,0695	-0,0562	4,8964	0,429

Kabupaten Trenggalek



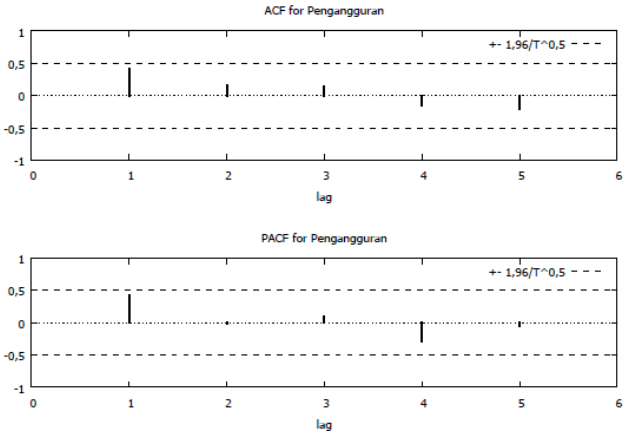
Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5000	0,5000	3,3330	0,068
2	0,2240	-0,0346	4,0859	0,130
3	-0,1275	-0,3019	4,3647	0,225
4	-0,2295	-0,0605	5,4179	0,247
5	-0,3978	-0,2627	9,2154	0,101

Kabupaten Tulungagung



Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,5819	0,5819	4,5152	0,034
2	0,1580	-0,2731	4,8899	0,087
3	0,0414	0,1360	4,9193	0,178
4	-0,0237	-0,1265	4,9305	0,295
5	-0,1579	-0,1439	5,5287	0,355

Kabupaten Pacitan



Lag	ACF	PACF	Q-Stat	nilai$-p$
1	0,4139	0,4139	2,2841	0,131
2	0,1599	-0,0137	2,6677	0,263
3	0,1346	0,0883	2,9781	0,395
4	-0,1533	-0,2899	3,4479	0,486
5	-0,2040	-0,0537	4,4464	0,487

Lampiran 3. Uji Asumsi Model Efek Biasa

1. Uji Normalitas

Test for null hypothesis of normal distribution:

Chi-square(2) = 50,979 with p-value 0,00000

2. Multikolinearitas

```
> vif(LinearModel.1)
      X1       X2       X3       X4       X5
1.548056 1.085559 1.016190 1.209755 1.586296
> round(cov2cor(vcov(LinearModel.1)), 3) # Correlations of parameter estimates
 (Intercept)     X1     X2     X3     X4     X5
(Intercept)     1.000 -0.114 -0.308 -0.849  0.069 -0.078
X1              -0.114  1.000 -0.152 -0.031 -0.088 -0.521
X2              -0.308 -0.152  1.000 -0.069 -0.177  0.050
X3              -0.849 -0.031 -0.069  1.000 -0.045 -0.020
X4               0.069 -0.088 -0.177 -0.045  1.000 -0.247
X5              -0.078 -0.521  0.050 -0.020 -0.247  1.000
```

Lampiran 4. Syntax Model Efek Biasa Menggunakan Software R

```
> panel <- read.table("G:/Data/Panel 7.txt", header=TRUE, sep="",
+   na.strings="NA", dec=".", strip.white=TRUE)

> LinearModel.1 <- lm(Y ~ X1 + X2 + X3 + X4 + X5, data=panel)

> summary(LinearModel.1)
```

Lampiran 5. Syntax Model Efek Biasa Menggunakan GLM dengan Software R

```
> panel <- read.table("G:/Data/Panel 7.txt", header=TRUE, sep="",
+   na.strings="NA", dec=".", strip.white=TRUE)

> GLM.1 <- glm(Y ~ X1 + X2 + X3 + X4 + X5, family=poisson(log),
data=panel)

> summary(GLM.1)
```

Lampiran 6. Syntax Model Efek Tetap Menggunakan GLM dengan Software R

```
> panel <- read.table("D:/Data/panel 8.txt", header=TRUE, sep="",
+   na.strings="NA", dec=".", strip.white=TRUE)
> GLM.2 <- glm(Y ~ X1 + X2 + X3 + X4 + X5 + D, family=poisson(log),
+   data=panel)

> summary(GLM.2)
```

Lampiran 7. Syntax GLMM dengan Software R

```
> panel <- read.table("D:/Data/panel 8.txt", header=TRUE, sep="",
+   na.strings="NA", dec=".", strip.white=TRUE)
> library(trust, pos=16)

> library(mvtnorm, pos=16)

> library(Matrix, pos=16)

> library(glmm, pos=16)

> library(FAMILY, pos=20)

> library(debug, pos=24)

T <- as.factor(T)

> GLMM.1 <- glmm(Y ~ X1 + X2 + X3 +X4 + X5 + D +(1|T),
varcomps.names="T",data=panel,family.glmm=poisson.glmm,
m=10^4,debug=TRUE)

> summary(GLMM.1)
```

Lampiran 8. Output Model Efek Biasa Menggunakan Software R

```
Call:
lm(formula = Y ~ X1 + X2 + X3 + X4 + X5, data = panel)

Residuals:
    Min      1Q  Median      3Q     Max
-312814  -78308   -3805   59919  670941

Coefficients: Estimate  Std. Error  t value     Pr(>|t|)
(Intercept) 18223.07088 31262.15301 0.583       0.5603
X1          0.58714     0.02264     25.931      < 2e-16 ***
X2          -0.09915    0.01539     -6.441      3.64e-10 ***
X3          -3324.14556 4664.21404  -0.713      0.4765
X4          1.28668     0.14342     8.971       < 2e-16 ***
X5          15912.44048 7916.11296  2.010       0.0451 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 116400 on 374 degrees of freedom
Multiple R-squared:  0.7849,  Adjusted R-squared:  0.782
F-statistic: 272.9 on 5 and 374 DF,  p-value: < 2.2e-16
> Anova(LinearModel.2, type="II")
Anova Table (Type II tests)

Response: Y
                 Sum Sq  Df  F value    Pr(>F)
X1         9103140680724   1 672.4153 < 2.2e-16 ***
X2          561722518686   1  41.4924 3.642e-10 ***
X3            6876330868   1   0.5079   0.47648
X4         1089549472871   1  80.4810 < 2.2e-16 ***
X5           54702006996   1   4.0406   0.04513 *
Residuals 5063201889788 374
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Call:
lm(formula = Y ~ X1 + X2 + X4 + X5, data = panel)
```

```
Residuals:
    Min      1Q  Median      3Q     Max
-312905  -75511   -4931   58640  670684

Coefficients:     Estimate  Std. Error    t value Pr(>|t|)
(Intercept)       -697.77043 16496.82920  -0.042   0.9663
X1                0.58663     0.02262     25.938  < 2e-16 ***
X2                -0.09992    0.01535     -6.511  2.4e-10 ***
X4                1.28212     0.14319     8.954  < 2e-16 ***
X5                15798.51041  7909.30433   1.997   0.0465 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 116300 on 375 degrees of freedom
Multiple R-squared:  0.7846,  Adjusted R-squared:  0.7823
F-statistic: 341.5 on 4 and 375 DF,  p-value: < 2.2e-16
```

Lampiran 9. Output Model Efek Biasa Menggunakan GLM dengan Software R

```
Uji Sebaran Peubah Respon
Test Statistics
      Pengangguran
Chi-Square  1.979a
df    377
Asymp. Sig. 1.000
a. 378 cells (100,0%) have expected frequencies less than 5. The
minimum expected cell frequency is 1,0.
Call:
glm(formula = Y ~ X1 + X2 + X3 + X4 + X5, family = poisson(log),
    data = panel)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-507.69  -157.93   -63.25    97.16  1173.60
Coefficients:Estimate Std. Error  z value       Pr(>|z|)
(Intercept)  1.186e+01  4.999e-04 23735.02      <2e-16 ***
X1           1.719e-06  3.051e-10  5632.83      <2e-16 ***
X2          -2.538e-07  2.314e-10 -1096.76      <2e-16 ***
X3          -3.559e-02  7.714e-05  -461.39      <2e-16 ***
X4          -6.282e-08  1.802e-09   -34.86      <2e-16 ***
X5           3.488e-02  8.945e-05   389.98      <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for poisson family taken to be 1)

    Null deviance: 67433535  on 379  degrees of freedom
Residual deviance: 17877289  on 374  degrees of freedom
AIC: 17882651

Number of Fisher Scoring iterations: 4

> exp(coef(GLM.1))  # Exponentiated coefficients(Intercept)
               X1                   X2             X3          X4
```

```
142105.2885502  1.0000017      0.9999997      0.9650338  0.9999999
X5
1.0354975
> BIC(GLM.1)
[1] 17882674
> Anova(GLM.1, type="II", test="LR")
Analysis of Deviance Table (Type II tests)
Response: Y
   LR Chisq Df Pr(>Chisq)
X1 29247706  1  < 2.2e-16 ***
X2  1275145  1  < 2.2e-16 ***
X3   214030  1  < 2.2e-16 ***
X4     1217  1  < 2.2e-16 ***
X5   149813  1  < 2.2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Lampiran 10. Output Model Efek Tetap Menggunakan GLM dengan Software R

```
> GLM.2 <- glm(Y ~ X1 + X2 + X3 + X4 + X5 + D, family=poisson(log),
+   data=panel)

> summary(GLM.2)

Call:
glm(formula = Y ~ X1 + X2 + X3 + X4 + X5 + D, family = poisson(log),
    data = panel)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-359.39   -98.25    -9.74    58.93  1062.42

Coefficients:
                   Estimate Std. Error   z value Pr(>|z|)
(Intercept)        1.257e+01  1.251e-03 10044.533   <2e-16 ***
X1                 1.151e-06  2.176e-09   528.917   <2e-16 ***
X2                -3.986e-07  2.608e-10 -1528.538   <2e-16 ***
X3                -3.151e-02  8.928e-05  -352.881   <2e-16 ***
X4                -1.242e-09  2.842e-09    -0.437    0.662
X5                 5.741e-02  1.670e-04   343.748   <2e-16 ***
D[T.BANYUWANGI]   -6.137e-02  1.145e-03   -53.588   <2e-16 ***
D[T.BLITAR]       -5.304e-01  9.317e-04  -569.300   <2e-16 ***
D[T.BOJONEGORO]   -2.147e-01  9.598e-04  -223.716   <2e-16 ***
D[T.BONDOWOSO]    -8.767e-01  1.076e-03  -814.675   <2e-16 ***
D[T.GRESIK]        2.663e-01  8.657e-04   307.637   <2e-16 ***
D[T.JEMBER]       -1.943e-01  1.795e-03  -108.222   <2e-16 ***
D[T.JOMBANG]       4.351e-02  8.715e-04    49.924   <2e-16 ***
D[T.KBATU]        -1.057e+00  1.638e-03  -645.558   <2e-16 ***
D[T.KBLITAR]      -1.422e+00  1.803e-03  -788.245   <2e-16 ***
D[T.KEDIRI]        3.113e-02  1.037e-03    30.038   <2e-16 ***
D[T.KKEDIRI]      -5.699e-01  1.376e-03  -414.078   <2e-16 ***
D[T.KMADIUN]      -1.014e+00  1.548e-03  -654.912   <2e-16 ***
D[T.KMALANG]       1.821e-01  8.260e-04   220.427   <2e-16 ***
```

```
D[T.KMOJOKERTO]   -1.298e+00  1.764e-03  -735.857   <2e-16 ***
D[T.KPASURUAN]    -1.011e+00  1.566e-03  -645.851   <2e-16 ***
D[T.KPROBOLINGGO] -9.334e-01  1.504e-03  -620.512   <2e-16 ***
D[T.KSURABAYA]     5.599e-02  2.600e-03    21.533   <2e-16 ***
D[T.LAMONGAN]     -6.001e-02  8.983e-04   -66.804   <2e-16 ***
D[T.LUMAJANG]     -4.864e-01  9.025e-04  -538.907   <2e-16 ***
D[T.MADIUN]       -2.218e-01  8.909e-04  -248.962   <2e-16 ***
D[T.MAGETAN]      -6.633e-01  1.030e-03  -644.108   <2e-16 ***
D[T.MALANG]        6.125e-02  1.952e-03    31.380   <2e-16 ***
D[T.MOJOKERTO]     1.515e-01  8.441e-04   179.451   <2e-16 ***
D[T.NGANJUK]      -2.852e-01  8.561e-04  -333.126   <2e-16 ***
D[T.NGAWI]        -1.293e-01  8.351e-04  -154.812   <2e-16 ***
D[T.PACITAN]      -1.224e+00  1.271e-03  -962.726   <2e-16 ***
D[T.PAMEKASAN]    -5.715e-01  9.645e-04  -592.502   <2e-16 ***
D[T.PASURUAN]      1.519e-01  1.091e-03   139.315   <2e-16 ***
D[T.PONOROGO]     -4.110e-01  8.803e-04  -466.905   <2e-16 ***
D[T.PROBOLINGGO]  -5.048e-01  9.428e-04  -535.464   <2e-16 ***
D[T.SAMPANG]      -8.384e-01  1.005e-03  -834.182   <2e-16 ***
D[T.SIDOARJO]      2.584e-01  1.498e-03   172.510   <2e-16 ***
D[T.SITUBONDO]    -6.271e-01  1.021e-03  -614.073   <2e-16 ***
D[T.SUMENEP]      -6.090e-01  1.021e-03  -596.699   <2e-16 ***
D[T.TRENGGALEK]   -5.484e-01  9.630e-04  -569.440   <2e-16 ***
D[T.TUBAN]        -2.440e-01  9.344e-04  -261.133   <2e-16 ***
D[T.TULUNGAGUNG]  -4.472e-01  9.078e-04  -492.591   <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for poisson family taken to be 1)

    Null deviance: 67433535  on 379  degrees of freedom
Residual deviance:  8894226  on 337  degrees of freedom
AIC: 8899662

Number of Fisher Scoring iterations: 5

> exp(coef(GLM.2))  # Exponentiated coefficients
```

```
 (Intercept)                X1                X2                X3
  287760.2093414         1.0000012         0.9999996     0.9689854
  X4                X5   D[T.BANYUWANGI]       D[T.BLITAR]
  1.0000000         1.0590905         0.9404725         0.5883678
D[T.BOJONEGORO]    D[T.BONDOWOSO]       D[T.GRESIK]   D[T.JEMBER]
   0.8067603         0.4161612         1.3051374         0.8234373
D[T.JOMBANG]        D[T.KBATU]      D[T.KBLITAR]       D[T.KEDIRI]
   1.0444703         0.3473511         0.2413287         1.0316243
D[T.KKEDIRI]      D[T.KMADIUN]      D[T.KMALANG]   D[T.KMOJOKERTO]
  0.5656005         0.3628341         1.1997049         0.2730234
D[T.KPASURUAN] D[T.KPROBOLINGGO]    D[T.KSURABAYA]   D[T.LAMONGAN]
   0.3637398         0.3932317         1.0575846         0.9417567
D[T.LUMAJANG]       D[T.MADIUN]      D[T.MAGETAN]      D[T.MALANG]
   0.6148568         0.8010669         0.5151604         1.0631664
D[T.MOJOKERTO]      D[T.NGANJUK]        D[T.NGAWI]    D[T.PACITAN]
   1.1635399         0.7518661         0.8787292         0.2941885
D[T.PAMEKASAN]     D[T.PASURUAN]     D[T.PONOROGO]D[T.PROBOLINGGO]
 0.5646959         1.1640837         0.6629788         0.6036008
D[T.SAMPANG]     D[T.SIDOARJO]    D[T.SITUBONDO]      D[T.SUMENEP]
   0.4323919         1.2948458         0.5341156         0.5439021
D[T.TRENGGALEK]        D[T.TUBAN]  D[T.TULUNGAGUNG]
    0.5778920         0.7834788         0.6394404

> AIC(GLM.2)
[1] 8899662

> BIC(GLM.2)
[1] 8899831
Response: Y
   LR Chisq Df Pr(>Chisq)
X1   275357  1     <2e-16 ***
X2  2487401  1     <2e-16 ***
X3   125547  1     <2e-16 ***
X4        0  1      0.662
X5   116404  1     <2e-16 ***
D   8983063 37     <2e-16 ***
```

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Call:
glm(formula = Y ~ X1 + X2 + X3 + X5 + D, family = poisson(log),
    data = panel)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-359.39   -98.25    -9.73    58.92  1062.40

Coefficients: Estimate        Std. Error        z value Pr(>|z|)
(Intercept)   12.569880916003  0.001251413604 10044.55  <2e-16 ***
X1             0.000001150659  0.000000002142   537.17   <2e-16 ***
X2            -0.000000398601  0.000000000256 -1556.90   <2e-16 ***
X3            -0.031497764532  0.000087375780  -360.49   <2e-16 ***
X5             0.057416068168  0.000166536060   344.77   <2e-16 ***
D[T.BANYUWANGI]-0.061348049572  0.001143871906   -53.63 <2e-16 ***
D[T.BLITAR]  -0.530390685225  0.000931245027  -569.55   <2e-16 ***
D[T.BOJONEGORO]-0.214742570138  0.000959305488  -223.85 <2e-16 ***
D[T.BONDOWOSO] -0.876696493835  0.001075638686  -815.05 <2e-16 ***
D[T.GRESIK]   0.266240144007  0.000851502047   312.67   <2e-16 ***
D[T.JEMBER]  -0.194174648184  0.001782388388  -108.94   <2e-16 ***
D[T.JOMBANG] 0.043515016926  0.000871436029    49.94   <2e-16 ***
D[T.KBATU]   -1.057533323348  0.001617070005  -653.98   <2e-16 ***
D[T.KBLITAR] -1.421679985264  0.001793105937  -792.86   <2e-16 ***
D[T.KEDIRI]   0.031166985191  0.001033859697    30.15   <2e-16 ***
D[T.KKEDIRI] -0.570100320282  0.001268788421  -449.33   <2e-16 ***
D[T.KMADIUN] -1.013915761070  0.001528836845  -663.19   <2e-16 ***
D[T.KMALANG]  0.182020587467  0.000816376743   222.96   <2e-16 ***
D[T.KMOJOKERTO] -1.298288952938  0.001751801589 -741.12 <2e-16 ***
D[T.KPASURUAN] -1.011395245467  0.001555442981  -650.23 <2e-16 ***
D[T.KPROBOLINGGO]-0.933438475949  0.001492349415 -625.48<2e-16 ***
D[T.KSURABAYA]0.055862009380  0.002584212265    21.62   <2e-16 ***
D[T.LAMONGAN]-0.060004989750  0.000898238522   -66.80   <2e-16 ***
D[T.LUMAJANG]-0.486369685151  0.000902461487  -538.94   <2e-16 ***
```

```
D[T.MADIUN]  -0.221827839189  0.000890093203  -249.22   <2e-16 ***
D[T.MAGETAN] -0.663298111486  0.001028631427  -644.84   <2e-16 ***
D[T.MALANG]  0.061349825613  0.001938961877    31.64   <2e-16 ***
D[T.MOJOKERTO]0.151425807016  0.000838780711   180.53   <2e-16 ***
D[T.NGANJUK] -0.285189991774  0.000855969368  -333.18   <2e-16 ***
D[T.NGAWI]   -0.129283129958  0.000834998157  -154.83   <2e-16 ***
D[T.PACITAN] -1.223558638375  0.001269720224  -963.64   <2e-16 ***
D[T.PAMEKASAN] -0.571471673935  0.000964458616  -592.53 <2e-16 ***
D[T.PASURUAN] 0.151910515949  0.001089220849   139.47   <2e-16 ***
D[T.PONOROGO]-0.411005819168  0.000880164373  -466.96   <2e-16 ***
D[T.PROBOLINGGO]-0.504834097890  0.000942631156 -535.56 <2e-16 ***
D[T.SAMPANG] -0.838417576410  0.001005006642  -834.24   <2e-16 ***
D[T.SIDOARJO] 0.258380527184  0.001497627879   172.53   <2e-16 ***
D[T.SITUBONDO]-0.627165212135  0.001020016666  -614.86  <2e-16 ***
D[T.SUMENEP] -0.608993626704  0.001020447110  -596.79   <2e-16 ***
D[T.TRENGGALEK] -0.548381687020  0.000962501642 -569.75 <2e-16 ***
D[T.TUBAN]  -0.244035611164  0.000932765708  -261.63   <2e-16 ***
D[T.TULUNGAGUNG] -0.447165292811 0.000907738672 -492.62 <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for poisson family taken to be 1)

    Null deviance: 67433535  on 379  degrees of freedom
Residual deviance:  8894226  on 338  degrees of freedom
AIC: 8899662

Number of Fisher Scoring iterations: 5


> exp(coef(GLM.6))  # Exponentiated coefficients
(Intercept)                X1                X2                X3
287759.6655177         1.0000012         0.9999996         0.9689931
      X5    D[T.BANYUWANGI]       D[T.BLITAR]   D[T.BOJONEGORO]
1.0590964         0.9404958         0.5883751         0.8067491
D[T.BONDOWOSO]       D[T.GRESIK]       D[T.JEMBER]    D[T.JOMBANG]
```

```
   0.4161554         1.3050484         0.8235141         1.0444757
D[T.KBATU]      D[T.KBLITAR]       D[T.KEDIRI]      D[T.KKEDIRI]
   0.3473115         0.2413083         1.0316578         0.5654687
D[T.KMADIUN]      D[T.KMALANG]   D[T.KMOJOKERTO]    D[T.KPASURUAN]
  0.3627956         1.1996389         0.2729985         0.3637112
D[T.KPROBOLINGGO]    D[T.KSURABAYA]     D[T.LAMONGAN]D[T.LUMAJANG]
   0.3931994         1.0574518         0.9417598         0.6148545
D[T.MADIUN]      D[T.MAGETAN]       D[T.MALANG]    D[T.MOJOKERTO]
 0.8010533         0.5151495         1.0632708         1.1634920
D[T.NGANJUK]        D[T.NGAWI]      D[T.PACITAN]    D[T.PAMEKASAN]
  0.7518714         0.8787251         0.2941814         0.5646938
D[T.PASURUAN]     D[T.PONOROGO]  D[T.PROBOLINGGO]     D[T.SAMPANG]
  1.1640561         0.6629831         0.6036057         0.4323942
D[T.SIDOARJO]    D[T.SITUBONDO]      D[T.SUMENEP]  D[T.TRENGGALEK]
   1.2948314         0.5341037         0.5438980         0.5778843
D[T.TUBAN]  D[T.TULUNGAGUNG]
0.7834597         0.6394382

> BIC(GLM.6)
[1] 8899831
Chow test

Sum squared resid  3,18e+12
Sum squared resid  5,89e+12
F(37,337)= 5,89e+12
```
$p - value$ = 0,000

Lampiran 11. Output GLMM Menggunakan Software R

```
Family      : Poisson
Formula     : Y ~ X1 +X2 +X3 +X4 +X5 +D +(1|T)
Data        : panel
AIC         BIC
6282726     6282899
Scaled residuals:
    Min       1Q        Median       3Q         Max
-358.79     -97.97      -12.07      56.60       1056.62

Random effects:
Groups Name       Estimate    Variance          Std.Dev.
T (Intercept)     -0.1206     0.004612050       0.002895062
Number of obs: 380, groups: T, 10

Coefficients:
                  Estimate Std. Error   z value Pr(>|z|)
(Intercept)        2.547e-02  1.477e-04  1724.27   <2e-16 ***
X1                 6.075e-07  2.190e-09   277.44   <2e-16 ***
X2                 3.680e-07  5.117e-10   719.07   <2e-16 ***
X3                -1.594e-02  8.963e-05  -177.88   <2e-16 ***
X4                 8.665e-07  2.984e-09   290.39   <2e-16 ***
X5                 3.127e-02  1.639e-04   190.75   <2e-16 ***
D[T.BANYUWANGI]    7.783e-02  1.144e-03    68.02   <2e-16 ***
D[T.BLITAR]       -3.815e-01  9.342e-04  -408.37   <2e-16 ***
D[T.BOJONEGORO]   -1.189e-01  9.631e-04  -123.47   <2e-16 ***
D[T.BONDOWOSO]    -8.807e-01  1.077e-03  -817.71   <2e-16 ***
D[T.GRESIK]       -8.296e-02  9.003e-04   -92.15   <2e-16 ***
D[T.JEMBER]        1.359e-01  1.806e-03    75.23   <2e-16 ***
D[T.JOMBANG]       3.082e-02  8.727e-04    35.31   <2e-16 ***
D[T.KBATU]        -1.505e+00  1.657e-03  -908.37   <2e-16 ***
D[T.KBLITAR]      -1.619e+00  1.802e-03  -898.47   <2e-16 ***
D[T.KEDIRI]        1.391e-01  1.031e-03   134.94   <2e-16 ***
D[T.KKEDIRI]      -9.584e-01  1.388e-03  -690.58   <2e-16 ***
D[T.KMADIUN]      -1.225e+00  1.546e-03  -792.24   <2e-16 ***
```

```
D[T.KMALANG]      -4.334e-02  8.363e-04   -51.82   <2e-16 ***
D[T.KMOJOKERTO]   -1.619e+00  1.770e-03  -914.83   <2e-16 ***
D[T.KPASURUAN]    -1.351e+00  1.574e-03  -858.19   <2e-16 ***
D[T.KPROBOLINGGO] -1.206e+00  1.508e-03  -799.39   <2e-16 ***
D[T.KSURABAYA]     1.922e-01  2.584e-03    74.39   <2e-16 ***
D[T.LAMONGAN]     -3.466e-02  8.984e-04   -38.58   <2e-16 ***
D[T.LUMAJANG]     -4.275e-01  9.035e-04  -473.11   <2e-16 ***
D[T.MADIUN]       -2.217e-01  8.897e-04  -249.18   <2e-16 ***
D[T.MAGETAN]      -7.083e-01  1.029e-03  -688.49   <2e-16 ***
D[T.MALANG]        2.525e-01  1.949e-03   129.58   <2e-16 ***
D[T.MOJOKERTO]    -1.711e-01  8.745e-04  -195.64   <2e-16 ***
D[T.NGANJUK]      -1.994e-01  8.589e-04  -232.12   <2e-16 ***
D[T.NGAWI]        -9.448e-02  8.372e-04  -112.85   <2e-16 ***
D[T.PACITAN]      -1.229e+00  1.270e-03  -967.94   <2e-16 ***
D[T.PAMEKASAN]    -6.284e-01  9.668e-04  -650.01   <2e-16 ***
D[T.PASURUAN]     -8.122e-02  1.109e-03   -73.26   <2e-16 ***
D[T.PONOROGO]     -3.217e-01  8.840e-04  -363.90   <2e-16 ***
D[T.PROBOLINGGO]  -4.786e-01  9.418e-04  -508.14   <2e-16 ***
D[T.SAMPANG]      -8.098e-01  1.006e-03  -805.40   <2e-16 ***
D[T.SIDOARJO]      1.781e-01  1.496e-03   119.05   <2e-16 ***
D[T.SITUBONDO]    -6.562e-01  1.021e-03  -642.95   <2e-16 ***
D[T.SUMENEP]      -5.305e-01  1.025e-03  -517.36   <2e-16 ***
D[T.TRENGGALEK]   -5.222e-01  9.629e-04  -542.34   <2e-16 ***
D[T.TUBAN]        -2.430e-01  9.295e-04  -261.46   <2e-16 ***
D[T.TULUNGAGUNG]  -3.542e-01  9.108e-04  -388.92   <2e-16 ***
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
> exp(coef(GLMM.1))  # Exponentiated coefficients
 (Intercept)                X1                X2          X3
3.942833e+110      1.000001e+00      1.000000e+00     9.841828e-01
    X4                X5   D[T.BANYUWANGI]       D[T.BLITAR]
1.000001e+00      1.031766e+00      1.080939e+00      6.828465e-01
D[T.BOJONEGORO]    D[T.BONDOWOSO]       D[T.GRESIK]    D[T.JEMBER]
8.878887e-01      4.145088e-01      9.203877e-01      1.145517e+00
D[T.JOMBANG]        D[T.KBATU]      D[T.KBLITAR]       D[T.KEDIRI]
1.031298e+00      2.219483e-01      1.980761e-01      1.149282e+00
D[T.KKEDIRI]      D[T.KMADIUN]      D[T.KMALANG]   D[T.KMOJOKERTO]
```

```
3.834939e-01      2.938511e-01      9.575896e-01      1.980924e-01
D[T.KPASURUAN] D[T.KPROBOLINGGO]    D[T.KSURABAYA]   D[T.LAMONGAN]
2.589344e-01      2.994424e-01      1.211961e+00      9.659353e-01
D[T.LUMAJANG]       D[T.MADIUN]      D[T.MAGETAN]      D[T.MALANG]
6.521550e-01      8.011503e-01      4.924582e-01      1.287248e+00
D[T.MOJOKERTO]      D[T.NGANJUK]        D[T.NGAWI]    D[T.PACITAN]
8.427529e-01      8.192538e-01      9.098469e-01      2.924453e-01
D[T.PAMEKASAN]     D[T.PASURUAN]   D[T.PONOROGO] D[T.PROBOLINGGO]
5.334436e-01      9.219904e-01      7.249241e-01      6.196791e-01
D[T.SAMPANG]     D[T.SIDOARJO]    D[T.SITUBONDO]      D[T.SUMENEP]
4.449278e-01      1.194981e+00      5.188127e-01      5.883115e-01
D[T.TRENGGALEK]        D[T.TUBAN]  D[T.TULUNGAGUNG]
  5.931969e-01      7.842489e-01      7.017231e-01
Response: Y
   LR Chisq Df Pr(>Chisq)
X1    76399  1  < 2.2e-16 ***
X2   495852  1  < 2.2e-16 ***
X3    31768  1  < 2.2e-16 ***
X4    84063  1  < 2.2e-16 ***
X5    36091  1  < 2.2e-16 ***
D   6953398 37  < 2.2e-16 ***
T   2616938  1  < 2.2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Lampiran 12. Hasil Peramalan Pengangguran di Jawa Timur Tahun 2016

Kabupaten atau Kota	$ln\mu_{it} = 0{,}02547 + 6{,}075 \times 10^{-7}X_1 - 3{,}680 \times 10^{-7}X_2 - 0{,}01594X_3 + 8{,}665 \times 10^{-7}X_4 + 0{,}03127X_5 + D_i + Z_t$							
	$0{,}02547$	$6{,}075 \times 10^{-7}$	$-3{,}680 \times 10^{-7}$	$-0{,}01594$	$8{,}665 \times 10^{-7}$	$0{,}03127$	-0,1206	Hasil
Banyuwangi	0,10	0,53	-0,60	-0,09	0,03	0,03	-0,1206	-0,12%
Blitar	-0,36	0,38	-0,52	-0,08	0,02	0,06	-0,1206	-0,62%
Bojonegoro	-0,09	0,40	-0,54	-0,10	0,04	0,06	-0,1206	-0,35%
Bondowoso	-0,86	0,26	-0,52	-0,08	0,02	0,03	-0,1206	-1,99%
Gresik	-0,06	0,38	-1,12	-0,11	0,07	0,03	-0,1206	-0,93%
Jember	0,16	0,74	-0,60	-0,10	0,02	0	-0,1206	0,06%
Jombang	0,06	0,38	-0,71	-0,10	0,02	0,06	-0,1206	-0,41%
Kota Batu	-1,48	0,07	-0,75	-0,11	0,05	0,03	-0,1206	-2,31%
Kota Blitar	-1,59	0,05	-0,52	-0,10	0,03	0	-0,1206	-2,25%
Kediri	0,16	0,50	-0,54	-0,10	0,02	0,06	-0,1206	-0,02%
Kota Kediri	-0,93	0,08	-0,55	-0,08	0,03	0,03	-0,1206	-1,54%
Kota Madiun	-1,20	0,05	-0,51	-0,11	0,02	0,03	-0,1206	-1,86%
Kota Malang	-0,02	0,25	-0,77	-0,13	0,05	0,06	-0,1206	-0,78%
Kota Mojokerto	-1,59	0,04	-0,59	-0,10	0,03	0	-0,1206	-2,33%
Kota Pasuruan	-1,33	0,06	-0,65	-0,10	0,03	0	-0,1206	-2,11%
Kota Probolinggo	-1,18	0,07	-0,59	-0,11	0,03	0,03	-0,1206	-1,87%
Kota Surabaya	0,22	0,85	-1,12	-0,13	0,12	0,24	-0,1206	0,06%
Lamongan	-0,01	0,37	-0,58	-0,10	0,02	0,06	-0,1206	-0,36%
Lumajang	-0,40	0,30	-0,53	-0,10	0,02	0,03	-0,1206	-0,8%
Madiun	-0,20	0,21	-0,51	-0,11	0,02	0,03	-0,1206	-0,68%
Magetan	-0,68	0,23	-0,47	-0,10	0,02	0,03	-0,1206	-1,09%
Malang	0,28	0,76	-0,80	-0,13	0,06	0,03	-0,1206	0,08%
Mojokerto	-0,15	0,36	-1,12	-0,13	0,05	0,03	-0,1206	-1.08%

Nganjuk	-0,17	0,30	-0,52	-0,11	0,02	0,03	-0,1206	-0,57%
Ngawi	-0,07	0,25	-0,49	-0,10	0,02	0,03	-0,1206	-0,48%
Pacitan	-1,20	0,21	-0,47	-0,10	0,02	0,03	-0,1206	-1,63%
Pamekasan	-0,60	0,27	-0,50	-0,10	0,02	0,03	-0,1206	-1%
Pasuruan	-0,06	0,47	-1,12	-0,11	0,06	0,03	-0,1206	-0,85%
Ponorogo	-0,30	0,30	-0,47	-0,11	0,02	0,03	-0,1206	-0,65%
Probolinggo	-0,45	0,35	-0,59	-0,11	0,02	0,06	-0,1206	-0,84%
Sampang	-0,78	0,28	-0,51	-0,11	0,02	0,03	-0,1206	-1,19%
Sidoarjo	0,20	0,62	-1,12	-0,11	0,06	0,06	-0,1206	-0,41%
Situbondo	-0,63	0,23	-0,51	-0,10	0,02	0,03	-0,1206	-1,08%
Sumenep	-0,51	0,38	-0,51	-0,22	0,03	0,06	-0,1206	-0,89%
Trenggalek	-0,50	0,23	-0,47	-0,10	0,02	0,03	-0,1206	-0,91%
Tuban	-0,22	0,38	-0,65	-0,10	0,04	0,09	-0,1206	-0,58%
Tulungagung	-0,33	0,32	-0,52	-0,10	0,03	0,06	-0,1206	-0,66%
Bangkalan	0,03	0,28	-0,52	-0,08	0,02	0,03	-0,1206	-0,36%
Jawa Timur								-0,93%