

LAMPIRAN

Lampiran 1. Data Ekspor Kopi Indonesia Tahun 1987-2017

Tahun	Harga Kopi (US\$/Ton)	Produksi Kopi (Ton)	Luas Areal (Ha)	Nilai Ekspor Kopi (US\$)	Volume Ekspor Kopi (Ton)	Pertumbuhan Volume Ekspor Kopi (%)
1987	1.870,541639	388.669	961.640	535.566.000	286.316	0%
1988	1.840,269835	391.095	1.025.947	550.237.000	298.998	4%
1989	1.382,354671	401.048	1.036.550	493.549.000	357.035	19%
1990	894,0836777	412.767	1.069.848	377.154.000	421.833	18%
1991	978,3668623	428.305	1.119.854	372.431.000	380.666	-10%
1992	879,0504618	436.930	1.133.898	236.774.000	269.352	-29%
1993	983,6875136	438.868	1.147.567	344.208.000	349.916	30%
1994	2.577,860126	450.191	1.140.385	745.744.000	289.288	-17%
1995	2.634,084995	457.801	1.167.511	606.369.000	230.201	-20%
1996	1.623,744551	459.206	1.159.079	595.268.000	366.602	59%
1997	1.631,254188	428.418	1.1700.28	511.284.000	313.430	-15%
1998	1.634,020417	514.451	1.153.369	584.244.000	357.550	14%
1999	1.325,500684	531.687	1.127.277	467.858.000	352.967	-1%
2000	957,0796188	554.574	1.260.687	326.256.000	340.887	-3%
2001	751,5130493	569.234	1.313.383	188.493.000	250.818	-26%
2002	688,953229	682.019	1.372.184	223.916.000	325.009	30%
2003	799,935089	671.255	1.291.910	258.795.000	323.520	0%
2004	854,7883177	647.386	1.303.943	294.113.000	344.077	6%
2005	1.130,110424	640.365	1.255.272	503.836.000	445.829	30%
2006	1.419,291415	682.158	1.308.731	586.877.000	413.500	-7%
2007	1.979,810457	676.476	1.295.911	636.319.000	321.404	-22%
2008	2.115,114912	698.016	1.295.110	991.458.000	468.749	46%
2009	1.877,998155	682.690	1.266.235	814.300.000	433.600	-7%
2010	1.878,04518	686.921	1.210.364	814.311.000	433.595	0%
2011	2.991,89594	638.646	1.233.698	1.036.671.000	346.493	-20%
2012	2.785,43261	691.163	1.235.290	1.249.520.000	448.591	29%
2013	2.198,461489	675.882	1.241.713	1.174.029.000	534.023	19%
2014	2.700,877822	643.857	1.230.495	1.039.341.000	384.816	-28%
2015	2.385,826489	639.412	1.230.001	1.197.735.000	502.021	30%
2016	2.432,269547	639.305	1.228.512	1.008.543.000	414.651	-17%
2017	2.537,750188	637.539	1.227.787	1.187.157.000	467.799	13%
Rata-Rata Pertumbuhan Volume Ekspor dan Konsumsi Kopi Indonesia Tahun 1990-2017 (%)						4%

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 2. Perkembangan Luas Areal Kopi di Indonesia Menurut Status Pengusahaan, Tahun 1987-2017

Tahun	Luas Areal (Ha)			
	PR	PBN	PBS	INDONESIA
1987	908.584	24.280	28.776	961.640
1988	969.789	25.484	30.674	1.025.947
1989	984.234	21.800	30.516	1.036.550
1990	1.014.125	25.834	29.889	1.069.848
1991	1.063.289	25.891	30.674	1.119.854
1992	1.076.474	26.092	31.332	1.133.898
1993	1.090.050	26.325	31.192	1.147.567
1994	1.080.532	26.593	33.260	1.140.385
1995	1.109.499	25.616	32.396	1.167.511
1996	1.103.615	24.169	31.295	1.159.079
1997	1.105.114	32.232	32.682	1.170.028
1998	1.068.064	39.139	46.166	1.153.369
1999	1.059.245	39.316	28.716	1.127.277
2000	1.192.322	40.645	27.720	1.260.687
2001	1.258.628	26.954	27.801	1.313.383
2002	1.318.020	26.954	27.210	1.372.184
2003	1.240.222	26.597	25.091	1.291.910
2004	1.251.326	26.597	26.020	1.303.943
2005	1.202.392	26.641	26.239	1.255.272
2006	1.255.104	26.644	26.983	1.308.731
2007	1.243.429	23.721	28.761	1.295.911
2008	1.236.842	22.442	35.826	1.295.110
2009	1.217.506	22.794	25.935	1.266.235
2010	1.162.810	22.681	24.873	1.210.364
2011	1.184.967	22.572	26.159	1.233.698
2012	1.187.669	22.565	25.056	1.235.290
2013	1.194.081	22.556	25.076	1.241.713
2014	1.230.495	22.369	24.462	1.230.495
2015	1.183.244	22.366	24.391	1.230.001
2016	1.180.556	22.509	25.447	1.228.512
2017	1.179.769	22.525	25.493	1.227.787

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 3. Perkembangan Luas Areal Kopi di Indonesia Menurut Pengusahaan dan Jenis Kopi yang Diusahakan, Tahun 2001-2017

Tahun	Luas Areal Kopi (Ha)	
	Robusta	Arabika
2001	1.232.551	82.807
2002	1.280.891	91.293
2003	1.289.966	91.764
2004	1.176.744	127.199
2005	1.153.959	101.313
2006	1.131.622	177.110
2007	1.058.477	162.841
2008	1.009.213	285.897
2009	984.838	281.397
2010	958.782	251.583
2011	940.184	293.514
2012	940.400	293.582
2013	916.053	325.659
2014	899.808	330.687
2015	899.628	330.374
2016	898.776	330.536
2017	898.144	330.498

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 4. Perkembangan Produksi Kopi di Indonesia Menurut Status Pengusahaan, Tahun 1987-2017

Tahun	Produksi (Ton)			
	PR	PBN	PBS	INDONESIA
1987	367.835	13.043	7.791	388.669
1988	362.311	16.072	12.712	391.095
1989	376.579	13.466	11.003	401.048
1990	384.464	15.566	12.737	412.767
1991	399.088	16.755	12.462	428.305
1992	408.808	16.890	11.232	436.930
1993	410.048	17.266	11.554	438.868
1994	421.682	17.468	11.041	450.191
1995	429.569	16.824	11.408	457.801
1996	435.757	13.184	10.265	459.206
1997	396.155	21.050	11.213	428.418
1998	469.671	25.759	19.021	514.451
1999	493.940	26.208	11.539	531.687
2000	514.896	29.754	9.924	554.574
2001	541.476	18.111	9.647	569.234
2002	654.281	18.128	9.610	682.019
2003	644.657	17.007	9.591	671.255
2004	618.227	17.025	12.134	647.386
2005	615.556	17.034	7.775	640.365
2006	653.261	17.017	11.880	682.158
2007	652.336	13.642	10.498	676.476
2008	669.942	17.332	10.742	698.016
2009	653.918	14.387	14.385	682.690
2010	657.909	14.065	14.947	686.921
2011	616.429	9.099	13.118	638.646
2012	661.827	13.577	15.759	691.163
2013	645.346	13.945	16.591	675.882
2014	612.877	14.293	16.687	643.855
2015	602.428	19.703	17.281	639.412
2016	602.160	19.838	17.306	639.304
2017	599.902	19.922	17.715	637.539

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 5. Perkembangan Produksi Kopi di Indonesia Menurut Pengusahaan dan Jenis Kopi yang Diusahakan, Tahun 2001-2017

Tahun	Produksi Kopi (Ton)	
	Robusta	Arabika
2001	569.120	23.071
2002	656.903	25.116
2003	627.899	43.356
2004	592.160	55.225
2005	580.110	60.254
2006	587.385	94.773
2007	549.085	127.391
2008	550.920	147.096
2009	534.961	147.630
2010	540.280	146.641
2011	489.808	148.838
2012	503.990	153.147
2013	509.557	166.325
2014	473.672	170.185
2015	466.493	172.919
2016	465.614	173.691
2017	463.775	173.764

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 6. Beberapa Provinsi dengan Produksi Kopi Perkebunan Rakyat Terbesar di Indonesia, Tahun 2013-2017

Provinsi	Rata-Rata Produksi 2013-2017 (Ton)	Share (%)
Sumatera Selatan	121.252	18,99
Lampung	110.045	17,24
Sumatera Utara	59.135	9,26
Bengkulu	56.501	8,85
Aceh	47.951	7,51
Sumatera Barat	33.129	5,19
Provinsi Lainnya	210.442	32,96
Indonesia	638.455	100,00

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 7. Beberapa Provinsi dengan Produksi Kopi Robusta Perkebunan Rakyat Terbesar di Indonesia, Tahun 2013-2017

Provinsi	Rata-Rata Produksi 2013-2017 (Ton)	Share (%)
Sumatera Selatan	121.252	26,84
Lampung	109.946	24,34
Bengkulu	54.974	12,17
Jawa Timur	27.941	6,18
Jawa Tengah	18.700	4,14
Provinsi Lainnya	118.969	26,33
Indonesia	451.783	100,00

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 8. Beberapa Provinsi dengan Produksi Kopi Arabika Perkebunan Rakyat Terbesar di Indonesia, Tahun 2013-2017

Provinsi	Rata-Rata Produksi 2013-2017 (Ton)	Share (%)
Sumatera Utara	49.698	30,90
Aceh	42.294	26,29
Sulawesi Selatan	20.103	12,50
Sumatera Barat	15.114	9,40
Jawa Barat	9.374	5,83
Provinsi Lainnya	24.274	15,09
Indonesia	160.857	100,00

Sumber : Direktorat Jenderal Perkebunan (2017)

Lampiran 9. Konsumsi Kopi Indonesia Tahun 1990-2018

Tahun	Konsumsi Kopi (Ton)	Pertumbuhan Konsumsi Kopi (%)
1990	74.520	0%
1991	76.800	3%
1992	79.140	3%
1993	81.540	3%
1994	84.000	3%
1995	86.580	3%
1996	89.160	3%
1997	91.920	3%
1998	94.680	3%
1999	97.560	3%
2000	100.560	3%
2001	120.000	19%
2002	106.740	-11%
2003	109.980	3%
2004	120.000	9%
2005	150.000	25%
2006	169.980	13%
2007	199.980	18%
2008	199.980	0%
2009	199.980	0%
2010	199.980	0%
2011	220.020	10%
2012	234.000	6%
2013	250.020	7%
2014	259.980	4%
2015	270.000	4%
2016	276.000	2%
2017	282.000	2%
2018	282.000	0%
<i>Rata-Rata Pertumbuhan Konsumsi Kopi Indonesia dari Tahun 1990-2017 (%)</i>		5%

Sumber : *International Coffee Organization* (2018)

Lampiran 10. Perkembangan Produktivitas Kopi di Indonesia Menurut Status Pengusahaan, Tahun 2003-2017

Tahun	Produktivitas (Ton/Hektare)	Pertumbuhan (%)
2003	0,725	-
2004	0,666	-8,14
2005	0,683	2,55
2006	0,696	1,90
2007	0,714	2,59
2008	0,729	2,10
2009	0,734	0,69
2010	0,796	8,43
2011	0,717	-9,95
2012	0,761	6,15
2013	0,739	-2,84
2014	0,741	0,32
2015	0,707	-4,71
2016	0,706	-0,09
2017	0,704	-0,31
Rata-rata Laju Pertumbuhan (%)		
2003-2017	0,721	-0,09
2013-2017	0,719	-1,53

Sumber : Direktorat Jenderal Perkebunan, diolah Pusdatin (2017)

Lampiran 11. Hasil Uji Penelitian

UJI STASIONER (LEVEL)

Null Hypothesis: LOG(HARGA_DUNIA) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.574589	0.4828
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation

Dependent Variable: D(LOG(HARGA_DUNIA))

Method: Least Squares

Date: 01/01/19 Time: 22:06

Sample (adjusted): 1988 2017

Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(HARGA_DUNIA(-1))	-0.179354	0.113905	-1.574589	0.1266
C	1.324945	0.836504	1.583908	0.1244
R-squared	0.081345	Mean dependent var		0.010168
Adjusted R-squared	0.048536	S.D. dependent var		0.281832
S.E. of regression	0.274908	Akaike info criterion		0.319578
Sum squared resid	2.116080	Schwarz criterion		0.412991
Log likelihood	-2.793673	Hannan-Quinn criter.		0.349462
F-statistic	2.479332	Durbin-Watson stat		1.490418
Prob(F-statistic)	0.126584			

Null Hypothesis: LOG(PRODUKSI) has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.572087	0.4841
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(PRODUKSI))
 Method: Least Squares
 Date: 01/01/19 Time: 22:08
 Sample (adjusted): 1988 2017
 Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(PRODUKSI(-1))	-0.075144	0.047799	-1.572087	0.1272
C	1.009731	0.631874	1.597995	0.1213
R-squared	0.081107	Mean dependent var		0.016496
Adjusted R-squared	0.048290	S.D. dependent var		0.056420
S.E. of regression	0.055041	Akaike info criterion		-2.897142
Sum squared resid	0.084826	Schwarz criterion		-2.803729
Log likelihood	45.45713	Hannan-Quinn criter.		-2.867258
F-statistic	2.471457	Durbin-Watson stat		2.351700
Prob(F-statistic)	0.127164			

Null Hypothesis: LOG(LUAS_AREAL) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.095253	0.0377
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(LUAS_AREAL))
 Method: Least Squares
 Date: 01/01/19 Time: 22:09
 Sample (adjusted): 1988 2017
 Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(LUAS_AREAL(-1))	-0.206917	0.066850	-3.095253	0.0044
C	2.903789	0.935527	3.103906	0.0043
R-squared	0.254935	Mean dependent var		0.008144
Adjusted R-squared	0.228325	S.D. dependent var		0.033879
S.E. of regression	0.029761	Akaike info criterion		-4.126904
Sum squared resid	0.024800	Schwarz criterion		-4.033490
Log likelihood	63.90355	Hannan-Quinn criter.		-4.097020
F-statistic	9.580590	Durbin-Watson stat		2.063919
Prob(F-statistic)	0.004432			

Null Hypothesis: LOG(EKSPOR_KOPI) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-1.100432	0.7024
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(EKSPOR_KOPI))
 Method: Least Squares
 Date: 01/01/19 Time: 22:10
 Sample (adjusted): 1988 2017
 Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(EKSPOR_KOPI(-1))	-0.109161	0.099198	-1.100432	0.2805
C	2.223275	1.996936	1.113343	0.2750
R-squared	0.041455	Mean dependent var		0.026533
Adjusted R-squared	0.007222	S.D. dependent var		0.286555
S.E. of regression	0.285518	Akaike info criterion		0.395320
Sum squared resid	2.282582	Schwarz criterion		0.488733
Log likelihood	-3.929803	Hannan-Quinn criter.		0.425204
F-statistic	1.210950	Durbin-Watson stat		1.673681
Prob(F-statistic)	0.280515			

UJI STASIONER (1ST DIFFERENCE)

Null Hypothesis: D(LOG(HARGA_DUNIA)) has a unit root
 Exogenous: Constant
 Lag Length: 1 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-4.323059	0.0021
Test critical values:		
1% level	-3.689194	
5% level	-2.971853	
10% level	-2.625121	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(HARGA_DUNIA),2)
 Method: Least Squares
 Date: 01/01/19 Time: 22:11
 Sample (adjusted): 1990 2017
 Included observations: 28 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LOG(HARGA_DUNIA(-1)))	-1.039390	0.240429	-4.323059	0.0002
D(LOG(HARGA_DUNIA(-1)),2)	0.271502	0.188317	1.441731	0.1618
C	0.021743	0.053114	0.409370	0.6858
R-squared	0.463728	Mean dependent var		0.011735
Adjusted R-squared	0.420826	S.D. dependent var		0.368972
S.E. of regression	0.280801	Akaike info criterion		0.398614
Sum squared resid	1.971226	Schwarz criterion		0.541350
Log likelihood	-2.580597	Hannan-Quinn criter.		0.442250
F-statistic	10.80905	Durbin-Watson stat		1.913705
Prob(F-statistic)	0.000414			

Null Hypothesis: D(LOG(PRODUKSI)) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-6.149157	0.0000
Test critical values:		
1% level	-3.679322	
5% level	-2.967767	
10% level	-2.622989	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(PRODUKSI),2)
 Method: Least Squares
 Date: 01/01/19 Time: 22:12
 Sample (adjusted): 1989 2017
 Included observations: 29 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LOG(PRODUKSI(-1)))	-1.168315	0.189996	-6.149157	0.0000
C	0.019739	0.011183	1.765064	0.0889
R-squared	0.583411	Mean dependent var		-0.000310
Adjusted R-squared	0.567982	S.D. dependent var		0.087644
S.E. of regression	0.057606	Akaike info criterion		-2.803892
Sum squared resid	0.089600	Schwarz criterion		-2.709596
Log likelihood	42.65644	Hannan-Quinn criter.		-2.774360
F-statistic	37.81214	Durbin-Watson stat		1.998519
Prob(F-statistic)	0.000001			

Null Hypothesis: D(LOG(LUAS_AREAL)) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.502423	0.0001
Test critical values:		
1% level	-3.679322	
5% level	-2.967767	
10% level	-2.622989	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(LUAS_AREAL),2)
 Method: Least Squares
 Date: 01/01/19 Time: 22:13
 Sample (adjusted): 1989 2017
 Included observations: 29 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LOG(LUAS_AREAL(-1)))	-1.006043	0.182836	-5.502423	0.0000
C	0.006244	0.006377	0.979194	0.3362
R-squared	0.528604	Mean dependent var		-0.002252
Adjusted R-squared	0.511145	S.D. dependent var		0.047652
S.E. of regression	0.033318	Akaike info criterion		-3.898986
Sum squared resid	0.029972	Schwarz criterion		-3.804690
Log likelihood	58.53530	Hannan-Quinn criter.		-3.869454
F-statistic	30.27665	Durbin-Watson stat		2.012864
Prob(F-statistic)	0.000008			

Null Hypothesis: D(LOG(EKSPOR_KOPI)) has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-4.662781	0.0009
Test critical values:		
1% level	-3.679322	
5% level	-2.967767	
10% level	-2.622989	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(LOG(EKSPOR_KOPI),2)
 Method: Least Squares
 Date: 01/01/19 Time: 22:14
 Sample (adjusted): 1989 2017
 Included observations: 29 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
D(LOG(EKSPOR_KOPI(-1)))	-0.896178	0.192198	-4.662781	0.0001
C	0.024250	0.055012	0.440815	0.6629
R-squared	0.446058	Mean dependent var		0.004691
Adjusted R-squared	0.425541	S.D. dependent var		0.389728
S.E. of regression	0.295387	Akaike info criterion		0.465409
Sum squared resid	2.355839	Schwarz criterion		0.559705
Log likelihood	-4.748433	Hannan-Quinn criter.		0.494942
F-statistic	21.74153	Durbin-Watson stat		1.961998
Prob(F-statistic)	0.000075			

UJI KOINTEGRASI

Dependent Variable: LOG(EKSPOR_KOPI)
 Method: Least Squares
 Date: 01/01/19 Time: 22:15
 Sample: 1987 2017
 Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	26.44422	8.424437	3.138989	0.0041
LOG(HARGA_DUNIA)	0.986458	0.077485	12.73090	0.0000
LOG(PRODUKSI)	1.217891	0.329259	3.698890	0.0010
LOG(LUAS_AREAL)	-2.118359	0.847608	-2.499219	0.0188
R-squared	0.921257	Mean dependent var		20.14873
Adjusted R-squared	0.912508	S.D. dependent var		0.543433
S.E. of regression	0.160742	Akaike info criterion		-0.698118
Sum squared resid	0.697626	Schwarz criterion		-0.513088
Log likelihood	14.82083	Hannan-Quinn criter.		-0.637803
F-statistic	105.2964	Durbin-Watson stat		1.817973
Prob(F-statistic)	0.000000			

Null Hypothesis: ECT has a unit root
 Exogenous: Constant
 Lag Length: 0 (Automatic - based on SIC, maxlag=7)

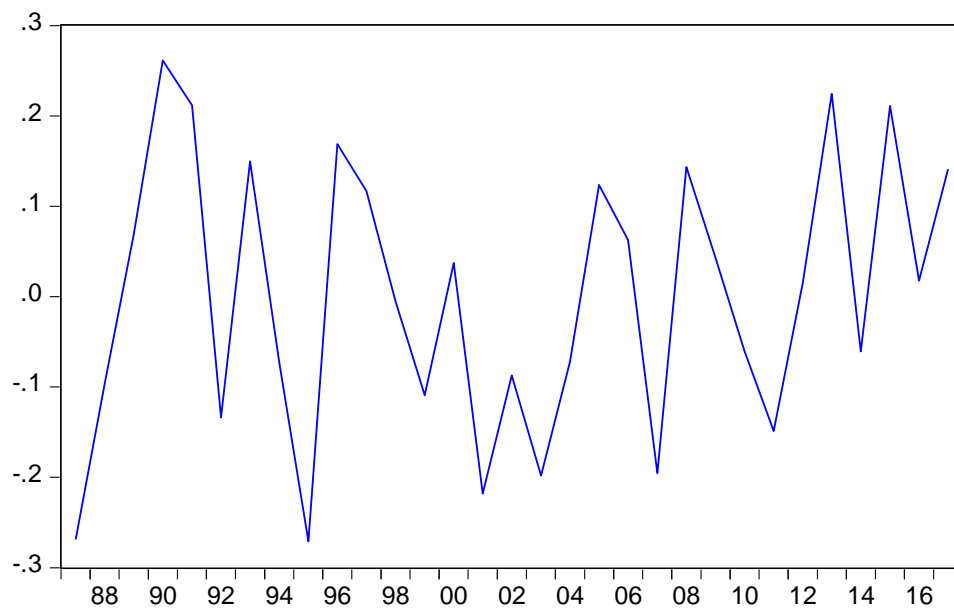
	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-5.366648	0.0001
Test critical values:		
1% level	-3.670170	
5% level	-2.963972	
10% level	-2.621007	

*MacKinnon (1996) one-sided p-values.

Augmented Dickey-Fuller Test Equation
 Dependent Variable: D(ECT)
 Method: Least Squares
 Date: 01/01/19 Time: 22:17
 Sample (adjusted): 1988 2017
 Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
ECT(-1)	-0.972428	0.181198	-5.366648	0.0000
C	0.009091	0.027234	0.333799	0.7410
R-squared	0.507050	Mean dependent var		0.013664
Adjusted R-squared	0.489445	S.D. dependent var		0.208663
S.E. of regression	0.149096	Akaike info criterion		-0.904111
Sum squared resid	0.622430	Schwarz criterion		-0.810698
Log likelihood	15.56167	Hannan-Quinn criter.		-0.874228
F-statistic	28.80091	Durbin-Watson stat		2.037447
Prob(F-statistic)	0.000010			

ECT



ERROR CORRECTION MODEL (ECM)

Dependent Variable: D(LOG(EKSPOR_KOPI))

Method: Least Squares

Date: 01/01/19 Time: 22:20

Sample (adjusted): 1988 2017

Included observations: 30 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.014125	0.028937	0.488136	0.6297
D(LOG(HARGA_DUNIA))	0.805250	0.104326	7.718558	0.0000
D(LOG(PRODUKSI))	1.014282	0.506176	2.003813	0.0560
D(LOG(LUAS_AREAL))	-2.052153	0.857509	-2.393155	0.0245
ECT(-1)	-0.893243	0.187750	-4.757626	0.0001
R-squared	0.768410	Mean dependent var		0.026533
Adjusted R-squared	0.731356	S.D. dependent var		0.286555
S.E. of regression	0.148524	Akaike info criterion		-0.825127
Sum squared resid	0.551485	Schwarz criterion		-0.591594
Log likelihood	17.37691	Hannan-Quinn criter.		-0.750418
F-statistic	20.73734	Durbin-Watson stat		2.216936
Prob(F-statistic)	0.000000			

UJI ASUMSI KLASIK

UJI MULTIKOLINEARITAS

LOG(EKSPOR_KOPI) C LOG(HARGA_DUNIA) LOG(PRODUKSI)
LOG(LUAS_AREAL)

Dependent Variable: LOG(EKSPOR_KOPI)

Method: Least Squares

Date: 01/01/19 Time: 22:36

Sample: 1987 2017

Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	26.44422	8.424437	3.138989	0.0041
LOG(HARGA_DUNIA)	0.986458	0.077485	12.73090	0.0000
LOG(PRODUKSI)	1.217891	0.329259	3.698890	0.0010
LOG(LUAS_AREAL)	-2.118359	0.847608	-2.499219	0.0188
R-squared	0.921257	Mean dependent var		20.14873
Adjusted R-squared	0.912508	S.D. dependent var		0.543433
S.E. of regression	0.160742	Akaike info criterion		-0.698118
Sum squared resid	0.697626	Schwarz criterion		-0.513088
Log likelihood	14.82083	Hannan-Quinn criter.		-0.637803
F-statistic	105.2964	Durbin-Watson stat		1.817973
Prob(F-statistic)	0.000000			

LOG(HARGA_DUNIA) C LOG(PRODUKSI) LOG(LUAS_AREAL)

Dependent Variable: LOG(HARGA_DUNIA)

Method: Least Squares

Date: 01/01/19 Time: 22:38

Sample: 1987 2017

Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	56.72943	17.52800	3.236502	0.0031
LOG(PRODUKSI)	2.266372	0.679289	3.336389	0.0024
LOG(LUAS_AREAL)	-5.669819	1.767907	-3.207079	0.0033
R-squared	0.291610	Mean dependent var		7.347021
Adjusted R-squared	0.241010	S.D. dependent var		0.450001
S.E. of regression	0.392041	Akaike info criterion		1.056863
Sum squared resid	4.303482	Schwarz criterion		1.195636
Log likelihood	-13.38137	Hannan-Quinn criter.		1.102099
F-statistic	5.763117	Durbin-Watson stat		0.725041
Prob(F-statistic)	0.008013			

LOG(PRODUKSI) C LOG(HARGA_DUNIA) LOG(LUAS_AREAL)

Dependent Variable: LOG(PRODUKSI)

Method: Least Squares

Date: 01/01/19 Time: 22:39

Sample: 1987 2017

Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-20.27087	2.950420	-6.870503	0.0000
LOG(HARGA_DUNIA)	0.125515	0.037620	3.336389	0.0024
LOG(LUAS_AREAL)	2.327335	0.207924	11.19322	0.0000
R-squared	0.823072	Mean dependent var		13.22251
Adjusted R-squared	0.810434	S.D. dependent var		0.211901
S.E. of regression	0.092260	Akaike info criterion		-1.836647
Sum squared resid	0.238333	Schwarz criterion		-1.697874
Log likelihood	31.46803	Hannan-Quinn criter.		-1.791411
F-statistic	65.12818	Durbin-Watson stat		0.970476
Prob(F-statistic)	0.000000			

LOG(LUAS_AREAL) C LOG(HARGA_DUNIA) LOG(PRODUKSI)

Dependent Variable: LOG(LUAS_AREAL)

Method: Least Squares

Date: 01/01/19 Time: 22:40

Sample: 1987 2017

Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	9.699575	0.409848	23.66630	0.0000
LOG(HARGA_DUNIA)	-0.047382	0.014774	-3.207079	0.0033
LOG(PRODUKSI)	0.351190	0.031375	11.19322	0.0000
R-squared	0.819162	Mean dependent var		13.99507
Adjusted R-squared	0.806245	S.D. dependent var		0.081419
S.E. of regression	0.035839	Akaike info criterion		-3.727798
Sum squared resid	0.035964	Schwarz criterion		-3.589025
Log likelihood	60.78087	Hannan-Quinn criter.		-3.682561
F-statistic	63.41721	Durbin-Watson stat		1.042876
Prob(F-statistic)	0.000000			

UJI HETEROKEDASTISITAS

Heteroskedasticity Test: White

F-statistic	0.699940	Prob. F(8,22)	0.6882
Obs*R-squared	6.289427	Prob. Chi-Square(8)	0.6148
Scaled explained SS	2.296292	Prob. Chi-Square(8)	0.9706

Test Equation:

Dependent Variable: RESID^2

Method: Least Squares

Date: 01/01/19 Time: 22:45

Sample: 1987 2017

Included observations: 31

Collinear test regressors dropped from specification

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	62.51826	55.46162	1.127235	0.2718
LOG(HARGA_DUNIA)^2	0.048354	0.034069	1.419317	0.1698
LOG(HARGA_DUNIA)*LOG(PRODUKSI)	-0.071389	0.129106	-0.552951	0.5859
LOG(HARGA_DUNIA)*LOG(LUAS_AREAL)	0.314044	0.350808	0.895202	0.3804
LOG(HARGA_DUNIA)	-4.159400	3.781880	-1.099823	0.2833
LOG(PRODUKSI)^2	-0.184315	0.409367	-0.450244	0.6569
LOG(PRODUKSI)*LOG(LUAS_AREAL)	0.893005	1.086721	0.821743	0.4200
LOG(PRODUKSI)	-7.131316	7.681312	-0.928398	0.3633
LOG(LUAS_AREAL)^2	-0.503635	0.539205	-0.934034	0.3604
R-squared	0.202885	Mean dependent var		0.022504
Adjusted R-squared	-0.086975	S.D. dependent var		0.022444
S.E. of regression	0.023400	Akaike info criterion		-4.434480
Sum squared resid	0.012046	Schwarz criterion		-4.018161
Log likelihood	77.73443	Hannan-Quinn criter.		-4.298770
F-statistic	0.699940	Durbin-Watson stat		2.716433
Prob(F-statistic)	0.688233			

UJI AUTOKORELASI

Dependent Variable: LOG(EKSPOR_KOPI)

Method: Least Squares

Date: 01/01/19 Time: 22:47

Sample: 1987 2017

Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	26.44422	8.424437	3.138989	0.0041
LOG(HARGA_DUNIA)	0.986458	0.077485	12.73090	0.0000
LOG(PRODUKSI)	1.217891	0.329259	3.698890	0.0010
LOG(LUAS_AREAL)	-2.118359	0.847608	-2.499219	0.0188
R-squared	0.921257	Mean dependent var		20.14873
Adjusted R-squared	0.912508	S.D. dependent var		0.543433
S.E. of regression	0.160742	Akaike info criterion		-0.698118
Sum squared resid	0.697626	Schwarz criterion		-0.513088
Log likelihood	14.82083	Hannan-Quinn criter.		-0.637803
F-statistic	105.2964	Durbin-Watson stat		1.817973
Prob(F-statistic)	0.000000			

Breusch-Godfrey Serial Correlation LM Test:

F-statistic	0.172534	Prob. F(2,25)	0.8425
Obs*R-squared	0.422058	Prob. Chi-Square(2)	0.8098

Test Equation:

Dependent Variable: RESID

Method: Least Squares

Date: 01/01/19 Time: 22:48

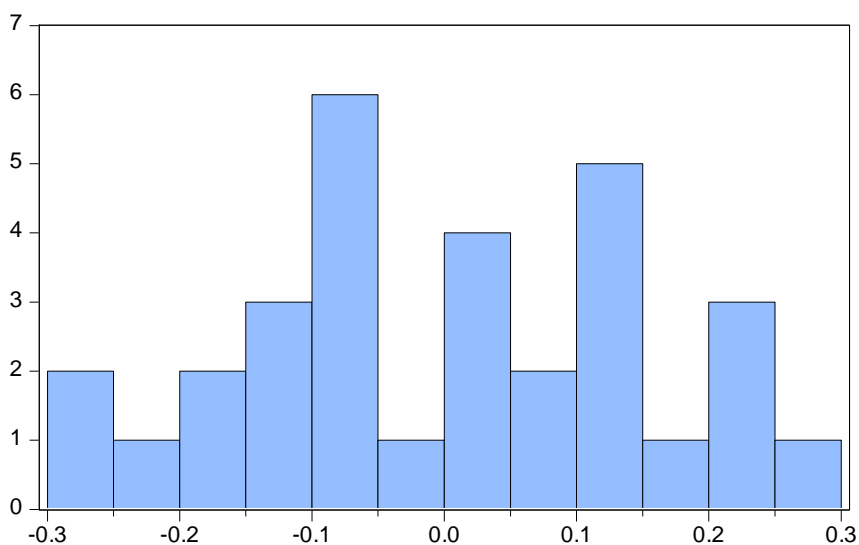
Sample: 1987 2017

Included observations: 31

Presample missing value lagged residuals set to zero.

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.143753	8.699189	0.016525	0.9869
LOG(HARGA_DUNIA)	0.003292	0.081064	0.040613	0.9679
LOG(PRODUKSI)	0.006076	0.340470	0.017846	0.9859
LOG(LUAS_AREAL)	-0.017775	0.875552	-0.020301	0.9840
RESID(-1)	0.026719	0.203866	0.131063	0.8968
RESID(-2)	-0.116720	0.203662	-0.573108	0.5717
R-squared	0.013615	Mean dependent var		-2.29E-15
Adjusted R-squared	-0.183662	S.D. dependent var		0.152493
S.E. of regression	0.165907	Akaike info criterion		-0.582794
Sum squared resid	0.688128	Schwarz criterion		-0.305248
Log likelihood	15.03331	Hannan-Quinn criter.		-0.492321
F-statistic	0.069013	Durbin-Watson stat		1.866145
Prob(F-statistic)	0.996293			

UJI NORMALITAS



UJI LINEARITAS

Ramsey RESET Test

Equation: UNTITLED

Specification: LOG(EKSPOR_KOPI) C LOG(HARGA_DUNIA)

LOG(PRODUKSI) LOG(LUAS_AREAL)

Omitted Variables: Squares of fitted values

	Value	df	Probability
t-statistic	0.470598	26	0.6419
F-statistic	0.221463	(1, 26)	0.6419
Likelihood ratio	0.262934	1	0.6081

F-test summary:

	Sum of Sq.	df	Mean Squares
Test SSR	0.005892	1	0.005892
Restricted SSR	0.697626	27	0.025838
Unrestricted SSR	0.691734	26	0.026605
Unrestricted SSR	0.691734	26	0.026605

LR test summary:

	Value	df
Restricted LogL	14.82083	27
Unrestricted LogL	14.95230	26

Unrestricted Test Equation:
 Dependent Variable: LOG(EKSPOR_KOPI)
 Method: Least Squares
 Date: 01/01/19 Time: 22:50
 Sample: 1987 2017
 Included observations: 31

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	71.85445	96.87260	0.741742	0.4649
LOG(HARGA_DUNIA)	3.773719	5.923326	0.637095	0.5296
LOG(PRODUKSI)	4.664271	7.331018	0.636238	0.5302
LOG(LUAS_AREAL)	-8.041412	12.61557	-0.637419	0.5294
FITTED^2	-0.070315	0.149417	-0.470598	0.6419
R-squared	0.921922	Mean dependent var		20.14873
Adjusted R-squared	0.909911	S.D. dependent var		0.543433
S.E. of regression	0.163111	Akaike info criterion		-0.642084
Sum squared resid	0.691734	Schwarz criterion		-0.410795
Log likelihood	14.95230	Hannan-Quinn criter.		-0.566690
F-statistic	76.75056	Durbin-Watson stat		1.762653
Prob(F-statistic)	0.000000			