

BAB V

PENUTUP

5.1 Kesimpulan

Berdasarkan hasil penelitian dan analisis mengenai pengaruh *Gross Domestic Product*, *Populasi Penduduk*, dan *Revealed Comparative Advantage* terhadap nilai ekspor sayuran Indonesia ke sepuluh negara tujuan utama tahun 2000-2019, maka diperoleh kesimpulan sebagai berikut:

1. *Gross Domestic Product* berpengaruh positif dan signifikan terhadap nilai ekspor sayuran Indonesia ke sepuluh negara tujuan utama tahun 2000-2019.
2. *Populasi penduduk* berpengaruh positif dan signifikan terhadap nilai ekspor sayuran Indonesia ke sepuluh negara tujuan utama tahun 2000-2019.
3. *Revealed Comparative Advantage* berpengaruh positif dan signifikan terhadap nilai ekspor sayuran Indonesia ke sepuluh negara tujuan utama tahun 2000-2019.
4. *Gross Domestic Product*, *Populasi Penduduk*, dan *Revealed Comparative Advantage* dalam hasil penelitian yang dilakukan secara bersama-sama mempengaruhi variabel dependen yaitu nilai ekspor sayuran Indonesia ke sepuluh negara tujuan utama tahun 2000-2019 dan analisis koefisien determinasi menunjukkan bahwa variabel dependen dapat dijelaskan oleh variabel independen sebesar 95.83

persen dan sisanya sebesar 4.17 persen dijelaskan oleh variabel lain di luar model.

5.2 Saran

Berdasarkan kesimpulan di atas maka saran yang bisa diberikan dari penelitian ini sebagai berikut:

1. Bagi pemerintah diharapkan memperhatikan ekspor sayuran Indonesia ke negara-negara yang memiliki GDP yang tinggi dan memiliki daya saing yang rendah untuk meningkatkan nilai ekspor sayuran Indonesia dilihat dari hasil penelitian menunjukkan variabel GDP negara tujuan ekspor memiliki pengaruh yang positif terhadap nilai ekspor sayuran Indonesia.
2. Bagi penelitian selanjutnya dapat menggunakan variabel lain yang berpengaruh terhadap ekspor sayuran Indonesia.

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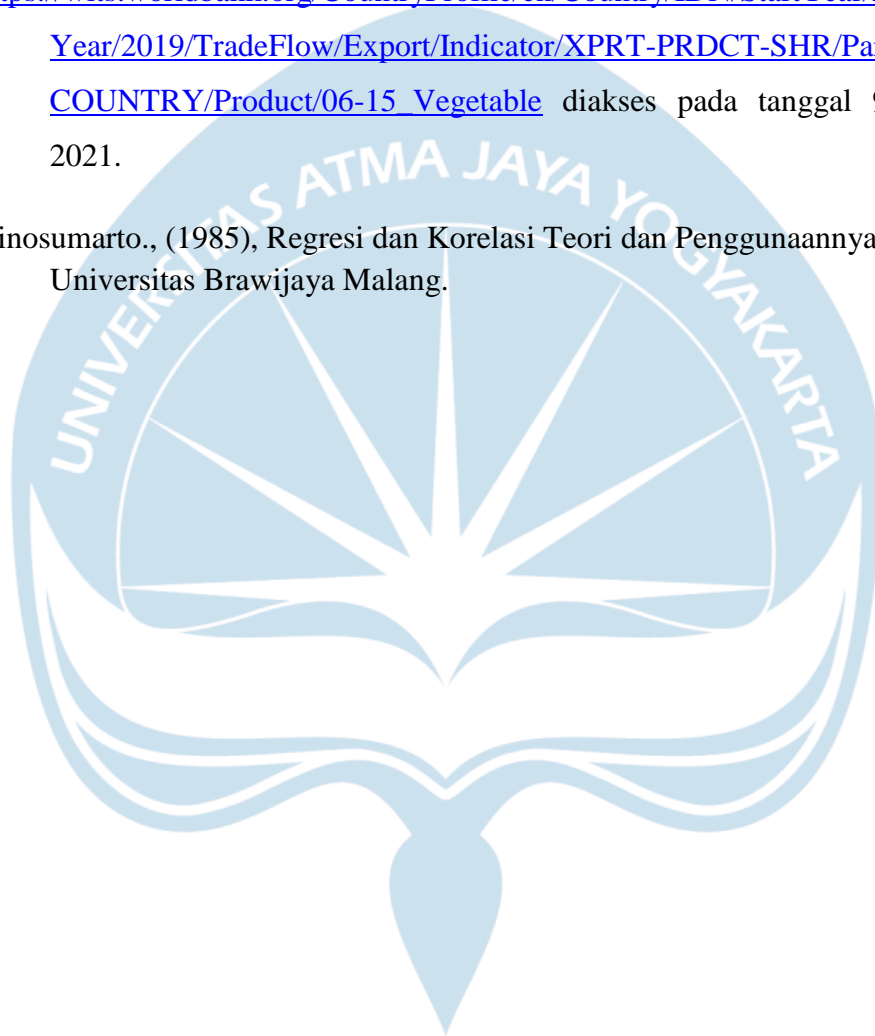
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LAMPIRAN
LAMPIRAN 1
DATA PENELITIAN

Negara	Tahun	Ekspor	GDP	POP	RCA
Bulgaria	2000	12635.64	6421.959	8170172	18
Bulgaria	2001	4402.436	6958.978	8009142	4.54
Bulgaria	2002	5063.008	7786.448	7837161	5.17
Bulgaria	2003	4590.259	8416.983	7775327	4.06
Bulgaria	2004	13968.682	9201.504	7716860	7.95
Bulgaria	2005	15197.243	10291.437	7658972	15.5
Bulgaria	2006	11486.192	11408.118	7601022	25
Bulgaria	2007	30976.245	12811.358	7545338	16.4
Bulgaria	2008	58315.931	14335.714	7492561	19
Bulgaria	2009	11098.872	14181.154	7444443	12.6
Bulgaria	2010	14723.205	14956.487	7395599	23.6
Bulgaria	2011	13976.967	15747.085	7348328	17.8
Bulgaria	2012	22476.154	16327.872	7305888	20
Bulgaria	2013	20807.601	16647.006	7265115	22
Bulgaria	2014	22012.813	17616.913	7223938	17.3
Bulgaria	2015	17137.041	18391.927	7177991	15.6
Bulgaria	2016	18961.015	20074.376	7127822	12.6
Bulgaria	2017	23348.869	21469.945	7075947	15
Bulgaria	2018	16688.771	23015.861	7025037	3.49
Bulgaria	2019	13452.063	24497.627	6975761	3.31
Georgia	2000	3104.796	3104.515	4077131	1.61
Georgia	2001	1207.094	3377.051	4014373	2.61
Georgia	2002	2904.473	3650.857	3978515	14.8
Georgia	2003	3045.962	4157.879	3951736	9.99

Georgia	2004	3200.484	4545.293	3927340	2.38
Georgia	2005	6457.199	5169.062	3902469	6.14
Georgia	2006	11419.154	5860.358	3880347	8.22
Georgia	2007	15337.931	6810.190	3860158	4.71
Georgia	2008	24023.637	7132.205	3848449	5.4
Georgia	2009	16239.778	6986.004	3814419	13.9
Georgia	2010	30093.413	7564.063	3786695	11.9
Georgia	2011	26082.949	8360.297	3756441	12.2
Georgia	2012	43027.016	9826.052	3728874	9.72
Georgia	2013	47559.506	10611.774	3717668	12.3
Georgia	2014	58692.482	11575.547	3719414	13.3
Georgia	2015	39440.208	12089.169	3725276	13.1
Georgia	2016	51511.194	12858.483	3727505	14.5
Georgia	2017	52447.499	13589.707	3728004	16.3
Georgia	2018	42110.864	14595.630	3726549	14.8
Georgia	2019	31524.274	15623.152	3720161	16.8
Jerman	2000	108134.43	21799.044	82211508	5.57
Jerman	2001	98181.603	28368.543	82349925	3.83
Jerman	2002	125919.22	29178.637	82488495	4.82
Jerman	2003	143433.49	29908.139	82534176	4.82
Jerman	2004	184693.618	31333.836	82516260	5.84
Jerman	2005	242116.819	31794.096	82469422	6.06
Jerman	2006	262130.327	34160.344	82376451	5.38
Jerman	2007	452768.505	36287.482	82266372	6.53
Jerman	2008	579114.152	37802.387	82110097	8.12
Jerman	2009	437905.522	36815.844	81902307	6.76
Jerman	2010	465988.671	38952.694	81776930	6
Jerman	2011	428488.86	42541.531	80274983	6.06
Jerman	2012	401680.302	43359.614	80425823	5.36
Jerman	2013	466141.676	44993.892	80645605	5.25

Jerman	2014	335239.951	47011.551	80982500	5.06
Jerman	2015	314524.662	47609.781	81686611	4.72
Jerman	2016	335195.807	50579.683	82348669	4.37
Jerman	2017	363949.074	53071.455	82657002	4.86
Jerman	2018	243410.27	55235.366	82905782	4.24
Jerman	2019	209053.931	55652.887	83092962	3.11
Denmark	2000	4797.573	28658.125	5339616	2.17
Denmark	2001	4492.55	29437.310	5358783	1.15
Denmark	2002	6784.656	30640.345	5375931	2.03
Denmark	2003	5740.136	30820.389	5390574	2.34
Denmark	2004	14393.389	32938.692	5404523	2.8
Denmark	2005	20371.044	34150.159	5419432	3.94
Denmark	2006	10834.206	37334.390	5437272	3.52
Denmark	2007	13037.682	39006.202	5461438	3.09
Denmark	2008	42134.998	41278.326	5493621	334
Denmark	2009	50805.821	40331.406	5523095	6.58
Denmark	2010	48486.582	43003.054	5547683	7.2
Denmark	2011	71161.961	44403.384	5570572	9.2
Denmark	2012	60994.674	44803.968	5591572	8.8
Denmark	2013	57980.505	46726.854	5614932	10
Denmark	2014	57524.197	47901.447	5643475	8.2
Denmark	2015	45397.555	49045.339	5683483	8.07
Denmark	2016	30184.052	51976.005	5728010	6.51
Denmark	2017	44766.578	55356.680	5764980	9.03
Denmark	2018	54347.127	57482.962	5793636	9.08
Denmark	2019	49138.357	58700.974	5814422	7.76
Yunani	2000	6187.274	19516.197	10805808	1.87
Yunani	2001	5305.539	20954.781	10862132	1.84
Yunani	2002	9896.823	22615.935	10902022	197
Yunani	2003	8650.953	23896.605	10928070	2.34

Yunani	2004	12011.301	25460.452	10955141	3.67
Yunani	2005	18705.382	25577.524	10987314	4.39
Yunani	2006	16248.836	28549.151	11020362	7.85
Yunani	2007	57142.14	29320.264	11048473	8.12
Yunani	2008	63141.411	30856.011	11077841	10.2
Yunani	2009	48603.623	30359.149	11107017	10.1
Yunani	2010	43140.659	27913.089	11121341	10
Yunani	2011	35910.568	25671.516	11104899	9.02
Yunani	2012	29268.512	24911.119	11045011	8.38
Yunani	2013	40151.179	25986.650	10965211	10.2
Yunani	2014	51568.167	26625.061	10892413	11
Yunani	2015	41946.458	26760.363	10820883	8.79
Yunani	2016	42640.005	27511.801	10775971	7.07
Yunani	2017	65954.969	28604.860	10754679	10.8
Yunani	2018	80182.24	29617.548	10732882	9.76
Yunani	2019	75704.767	30356.266	10721582	10
Italia	2000	38799.457	27072.421	56942108	2.1
Italia	2001	27204.381	28033.735	56974100	1.73
Italia	2002	31046.979	28736.577	57059007	1.41
Italia	2003	49276.981	29196.927	57313203	1.77
Italia	2004	106091.343	29554.689	57685327	2.63
Italia	2005	102689.525	30130.644	57969484	3.26
Italia	2006	116981.226	32453.583	58143979	3.24
Italia	2007	191949.726	34141.200	58438310	3.4
Italia	2008	493365.202	35523.271	58826731	6.14
Italia	2009	522840.704	34602.896	59095365	8.33
Italia	2010	615392.963	35158.441	59277417	7.65
Italia	2011	713895.04	36598.014	59379449	6.21
Italia	2012	756280.103	36486.296	59539717	9.42
Italia	2013	923577.587	36314.697	60233948	11.7

Italia	2014	1129444.5	36194.873	60789140	12.1
Italia	2015	821744.538	36899.385	60730582	10.4
Italia	2016	708353.581	39926.954	60627498	10.5
Italia	2017	897732.85	41581.120	60536709	11
Italia	2018	751152.096	43036.243	60421760	10.2
Italia	2019	579060.206	44334.200	59729081	9.79
India	2000	560817.54	2095.647	1056575548	11.3
India	2001	421367.91	2206.448	1075000094	8.92
India	2002	701814.14	2287.630	1093317187	10.3
India	2003	992371.25	2472.103	1111523146	12.2
India	2004	1285266.27	2695.893	1129623466	15.6
India	2005	1136876.8	2953.109	1147609924	13.7
India	2006	1227853.71	3237.294	1165486291	12.3
India	2007	2548115.02	3525.314	1183209471	10.5
India	2008	4574292.01	3650.942	1200669762	17.5
India	2009	3745573.56	3912.418	1217726217	12.3
India	2010	4764080.85	4236.744	1234281163	13.8
India	2011	5733242.98	4493.669	1250287939	12.4
India	2012	5331521.34	4861.156	1265780243	12
India	2013	4931694.91	5057.233	1280842119	10.7
India	2014	4100408.79	5233.882	1295600768	7.56
India	2015	3683563.14	5464.859	1310152392	5.95
India	2016	3838255.21	5839.864	1324517250	6.13
India	2017	5444772.09	6182.922	1338676779	6.93
India	2018	4158327.46	6675.361	1352642283	7.84
India	2019	2772009.34	6997.863	1366417756	5.69
Belanda	2000	476434.7	31870.833	15925513	4.84
Belanda	2001	302634.4	33180.182	16046180	3.8
Belanda	2002	523172.1	34447.205	16148929	4.96
Belanda	2003	374155.4	34149.619	16225302	4.51

Belanda	2004	670717.83	35809.785	16281779	5.82
Belanda	2005	809096.19	37625.561	16319868	6.28
Belanda	2006	817576.11	41013.786	16346101	5.96
Belanda	2007	1089467.3	43939.145	16381696	6.97
Belanda	2008	1842945	46420.201	16445593	7.15
Belanda	2009	1232993.5	44556.921	16530388	7.95
Belanda	2010	1604613.9	45043.904	16615394	7.83
Belanda	2011	1939651.8	46599.021	16693074	6.92
Belanda	2012	2085481	47272.103	16754962	7.63
Belanda	2013	1851400.5	49241.518	16804432	8.1
Belanda	2014	1848963.1	49233.215	16865008	7.67
Belanda	2015	1464418.7	50288.591	16939923	6.06
Belanda	2016	1355789.5	52288.415	17030314	5.7
Belanda	2017	1776023.1	55088.633	17131296	7.04
Belanda	2018	1520462.5	57826.628	17231624	6.08
Belanda	2019	1153135.9	59004.324	17344874	6.24
Rusia	2000	20249.917	6825.391	146596869	5.77
Rusia	2001	27425.367	7361.363	145976482	8.2
Rusia	2002	29533.765	8037.474	145306497	7.78
Rusia	2003	55305.401	9254.537	144648618	9.15
Rusia	2004	61604.541	10226.766	144067316	8.91
Rusia	2005	99271.418	11822.346	143518814	10.5
Rusia	2006	118298.541	14912.233	143049637	9.15
Rusia	2007	187014.741	16648.241	142805114	7.45
Rusia	2008	134256.036	20163.609	142742366	7.93
Rusia	2009	146718.076	19389.941	142785349	6.86
Rusia	2010	328359.858	20490.126	142849468	7.76
Rusia	2011	485335.465	22798.674	142960908	9.1
Rusia	2012	471618.819	24303.473	143201721	9.39
Rusia	2013	482568.103	26073.875	143506995	8.98

Rusia	2014	578768.032	25761.648	143819667	8.82
Rusia	2015	570260.457	24085.324	144096870	8.23
Rusia	2016	56821.734	24128.086	144342397	4.93
Rusia	2017	632897.947	25926.443	144496739	5.47
Rusia	2018	565164.911	28821.247	144477859	8.73
Rusia	2019	457159.053	29967.128	144406261	8.72
Afrika Selatan	2000	30870.041	8498.518	44967713	7.2
Afrika Selatan	2001	35098.093	8801.288	45571272	8.44
Afrika Selatan	2002	41165.975	9154.891	46150913	7.04
Afrika Selatan	2003	73855.084	9483.132	46719203	8.9
Afrika Selatan	2004	53775.572	10058.741	47291610	7.78
Afrika Selatan	2005	69530.32	10785.083	47880595	7.25
Afrika Selatan	2006	69756.351	11586.784	48489464	7.67
Afrika Selatan	2007	110478.417	12374.970	49119766	6.33
Afrika Selatan	2008	176570.917	12845.726	49779472	10.8
Afrika Selatan	2009	120107.391	12568.453	50477013	7.12
Afrika Selatan	2010	192691.779	12912.125	51216967	10.2
Afrika Selatan	2011	248816.353	13393.766	52003759	9.03
Afrika Selatan	2012	286427.912	13215.709	52832659	9.91
Afrika Selatan	2013	286774.562	13606.943	53687125	12.2
Afrika Selatan	2014	323644.43	13602.102	54544184	16
Afrika Selatan	2015	248274.453	13701.945	55386369	11.3
Afrika Selatan	2016	240029.369	13748.461	56207649	9.29
Afrika Selatan	2017	272888.823	13860.270	57009751	11.5
Afrika Selatan	2018	211571.754	14209.093	57792520	11
Afrika Selatan	2019	210898.284	14289.76	58558267	11.6

LAMPIRAN 2

COMMON EFFECT MODEL

Dependent Variable: LOG(EKSPOR)

Method: Panel Least Squares

Date: 05/24/22 Time: 17:56

Sample: 2000 2019

Periods included: 20

Cross-sections included: 10

Total panel (balanced) observations: 200

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-16.07366	1.668852	-9.631565	0.0000
LOG(GDP)	1.016741	0.108356	9.383297	0.0000
LOG(POP)	0.978917	0.050652	19.32615	0.0000
RCA	0.099309	0.019524	5.086404	0.0000
R-squared	0.661249	Mean dependent var		11.68248
Adjusted R-squared	0.656064	S.D. dependent var		1.910173
S.E. of regression	1.120242	Akaike info criterion		3.084763
Sum squared resid	245.9685	Schwarz criterion		3.150729
Log likelihood	-304.4763	Hannan-Quinn criter.		3.111459
F-statistic	127.5318	Durbin-Watson stat		0.189912
Prob(F-statistic)	0.000000			

LAMPIRAN 3
FIXED EFFECT MODEL

Dependent Variable: LOG(EKSPOR)
 Method: Panel EGLS (Cross-section weights)
 Date: 06/17/22 Time: 18:38
 Sample: 2000 2019
 Periods included: 20
 Cross-sections included: 10
 Total panel (balanced) observations: 200
 Linear estimation after one-step weighting matrix

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-62.18873	10.02793	-6.201553	0.0000
LOG(GDP)	1.700392	0.122813	13.84543	0.0000
LOG(POP)	3.250556	0.615091	5.284673	0.0000
RCA	0.112790	0.009573	11.78244	0.0000

Effects Specification

Cross-section fixed (dummy variables)

Weighted Statistics

R-squared	0.960839	Mean dependent var	15.00370
Adjusted R-squared	0.958326	S.D. dependent var	7.312960
S.E. of regression	0.507011	Sum squared resid	48.07033
F-statistic	382.3489	Durbin-Watson stat	0.903006
Prob(F-statistic)	0.000000		

Unweighted Statistics

R-squared	0.931185	Mean dependent var	11.68248
Sum squared resid	49.96708	Durbin-Watson stat	0.982134

LAMPIRAN 4

RANDOM EFFECT MODEL

Dependent Variable: LOG(EKSPOR)

Method: Panel EGLS (Cross-section random effects)

Date: 06/17/22 Time: 18:40

Sample: 2000 2019

Periods included: 20

Cross-sections included: 10

Total panel (balanced) observations: 200

Swamy and Arora estimator of component variances

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-27.89149	3.931484	-7.094391	0.0000
LOG(GDP)	1.694144	0.116742	14.51192	0.0000
LOG(POP)	1.276577	0.213625	5.975794	0.0000
RCA	0.100413	0.010675	9.406073	0.0000

Effects Specification		S.D.	Rho
Cross-section random		1.164574	0.8375
Idiosyncratic random		0.512982	0.1625

Weighted Statistics			
R-squared	0.670485	Mean dependent var	1.145140
Adjusted R-squared	0.665442	S.D. dependent var	0.913011
S.E. of regression	0.528095	Sum squared resid	54.66132
F-statistic	132.9381	Durbin-Watson stat	0.852951
Prob(F-statistic)	0.000000		

Unweighted Statistics			
R-squared	0.558559	Mean dependent var	11.68248
Sum squared resid	320.5318	Durbin-Watson stat	0.145457

LAMPIRAN 5 UJI CHOW

Redundant Fixed Effects Tests
Equation: Untitled
Test cross-section fixed effects

Effects Test	Statistic	d.f.	Prob.
Cross-section F	169.346244	(9,187)	0.0000

Cross-section fixed effects test equation:
Dependent Variable: LOG(EKSPOR)
Method: Panel EGLS (Cross-section weights)
Date: 06/17/22 Time: 18:42
Sample: 2000 2019
Periods included: 20
Cross-sections included: 10
Total panel (balanced) observations: 200
Use pre-specified GLS weights

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-22.66118	2.180122	-10.39446	0.0000
LOG(GDP)	1.447338	0.127170	11.38114	0.0000
LOG(POP)	1.126884	0.061254	18.39696	0.0000
RCA	0.122981	0.024900	4.938901	0.0000

Weighted Statistics

R-squared	0.641665	Mean dependent var	15.00370
Adjusted R-squared	0.636180	S.D. dependent var	7.312960
S.E. of regression	1.498061	Sum squared resid	439.8606
F-statistic	116.9915	Durbin-Watson stat	0.104040
Prob(F-statistic)	0.000000		

Unweighted Statistics

R-squared	0.584734	Mean dependent var	11.68248
Sum squared resid	301.5259	Durbin-Watson stat	0.171157

LAMPIRAN 6

UJI HAUSMAN

Correlated Random Effects - Hausman Test

Equation: Untitled

Test cross-section random effects

Test Summary	Chi-Sq. Statistic	Chi-Sq. d.f.	Prob.
Cross-section random	14.718905	3	0.0021

Cross-section random effects test comparisons:

Variable	Fixed	Random	Var(Diff.)	Prob.
LOG(GDP)	1.664822	1.694144	0.001350	0.4248
LOG(POP)	4.172457	1.276577	0.729514	0.0007
RCA	0.099615	0.100413	0.000002	0.5720

Cross-section random effects test equation:

Dependent Variable: LOG(EKSPOR)

Method: Panel Least Squares

Date: 06/17/22 Time: 18:46

Sample: 2000 2019

Periods included: 20

Cross-sections included: 10

Total panel (balanced) observations: 200

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-77.66937	15.07195	-5.153239	0.0000
LOG(GDP)	1.664822	0.122385	13.60315	0.0000
LOG(POP)	4.172457	0.880426	4.739136	0.0000
RCA	0.099615	0.010768	9.250613	0.0000

Effects Specification

Cross-section fixed (dummy variables)

R-squared	0.932228	Mean dependent var	11.68248
Adjusted R-squared	0.927879	S.D. dependent var	1.910173
S.E. of regression	0.512982	Akaike info criterion	1.565639
Sum squared resid	49.20913	Schwarz criterion	1.780029
Log likelihood	-143.5639	Hannan-Quinn criter.	1.652399
F-statistic	214.3559	Durbin-Watson stat	0.942460
Prob(F-statistic)	0.000000		

LAMPIRAN 7
UJI MULTIKOLINEARITAS

	LOGGDP	LOGPOP	RCA
LOGGDP	1.000000	0.434870	0.355552
LOGPOP	0.434870	1.000000	0.147852
RCA	0.355552	0.147852	1.000000



LAMPIRAN 8 UJI HETEROKEDASTISITAS

Dependent Variable: RESABS
 Method: Panel EGLS (Cross-section weights)
 Date: 06/17/22 Time: 18:54
 Sample: 2000 2019
 Periods included: 20
 Cross-sections included: 10
 Total panel (balanced) observations: 200
 Linear estimation after one-step weighting matrix

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-4.391537	5.454788	-0.805079	0.4218
LOG(GDP)	0.096546	0.069397	1.391217	0.1658
LOG(POP)	0.224118	0.336562	0.665903	0.5063
RCA	-0.006859	0.005273	-1.300831	0.1949

Effects Specification

Cross-section fixed (dummy variables)

Weighted Statistics

R-squared	0.252741	Mean dependent var	0.428067
Adjusted R-squared	0.204789	S.D. dependent var	0.301379
S.E. of regression	0.295922	Sum squared resid	16.37556
F-statistic	5.270668	Durbin-Watson stat	1.293604
Prob(F-statistic)	0.000000		

Unweighted Statistics

R-squared	0.233734	Mean dependent var	0.375779
Sum squared resid	16.64721	Durbin-Watson stat	1.033469