a) The estimated coefficient of β_5 is statistically significant and positive. This could be caused by a reverse causality effect as high crime rates of a county are likely to force an increase in the police per capita. Further, the estimates might be biased if police rates are correlated with unobserved factors affecting the crime rates.

Dependent Variable: LOG(CRMRTE) Method: Least Squares

Date: 02/08/23 Time: 12:50

Sample: 1 90

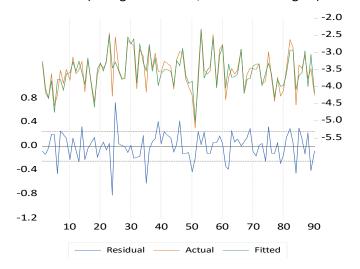
Included observations: 90

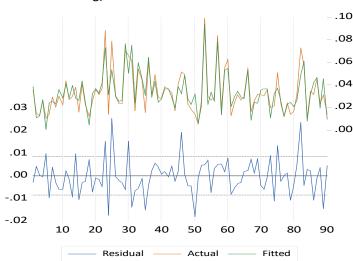
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C LOG(PRBARR) LOG(PRBCONV) LOG(PRBPRIS) LOG(AVGSEN) LOG(POLPC) LOG(DENSITY) WEST CENTRAL URBAN	-2.668607	0.791564	-3.371310	0.0012
	-0.441426	0.082163	-5.372570	0.0000
	-0.337108	0.055361	-6.089294	0.0000
	-0.002253	0.123411	-0.018255	0.9855
	-0.132212	0.110178	-1.199981	0.2338
	0.331385	0.083658	3.961171	0.0002
	0.375488	0.055127	6.811367	0.0000
	-0.143378	0.123644	-1.159602	0.2497
	-0.202295	0.073261	-2.761294	0.0072
	-0.145293	0.132157	-1.099400	0.2750
LOG(PCTMIN)	0.210076	0.051011	4.118260	0.0001
LOG(PCTYMLE)	-0.093648	0.152631	-0.613557	0.5413
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.816871 0.791046 0.250839 4.907790 3.199902 31.63003 0.000000	Mean depen S.D. depend Akaike info o Schwarz crit Hannan-Qui Durbin-Wats	ent var criterion erion nn criter.	-3.541727 0.548744 0.195558 0.528866 0.329967 2.378182

Dependent Variable: CRMRTE Method: Least Squares Date: 02/08/23 Time: 12:52 Sample: 1 90 Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	0.034877	0.008256	4.224145	0.0001
PRBARR	-0.058835	0.008995	-6.541046	0.0000
PRBCONV	-0.019197	0.002988	-6.425059	0.0000
PRBPRIS	0.002498	0.011713	0.213255	0.8317
AVGSEN	-0.000376	0.000388	-0.967861	0.3361
POLPC	7.825862	1.285968	6.085582	0.0000
DENSITY	0.005869	0.001240	4.731226	0.0000
WEST	-0.006817	0.003781	-1.802862	0.0753
CENTRAL	-0.005108	0.002578	-1.981122	0.0511
URBAN	0.000578	0.006005	0.096250	0.9236
PCTMIN	0.000242	8.90E-05	2.718209	0.0081
PCTYMLE	0.055197	0.041279	1.337148	0.1851
R-squared	0.821475	Mean depen	dent var	0.033510
Adjusted R-squared	0.796299	S.D. dependent var		0.018887
S.E. of regression	0.008524	Akaike info criterion		-6.568222
Sum squared resid	0.005668	Schwarz criterion		-6.234914
Log likelihood	307.5700	Hannan-Quir	nn criter.	-6.433813
F-statistic	32.62858	Durbin-Wats	on stat	2.466647
Prob(F-statistic)	0.000000			

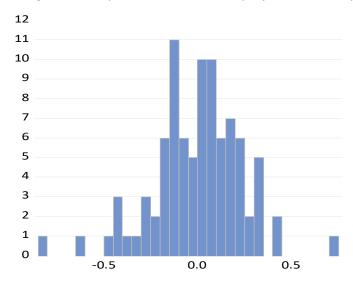
- The dependent variable differs among the models.
- Logs on the left, levels on the right (note the different scaling)





Both models have similar residual plots that exhibit highest peaks around observations 24 and 25. Several outliers provide some evidence of possible misspecification.

d) logs- normality and homoskedasticity rejected, linearity not rejected



Series: Residuals					
Sample 1 90					
Observations	90				
Mean	2.28e-16				
Median	0.026969				
Maximum	0.730224				
Minimum	-0.810771				
Std. Dev.	0.234827				
Skewness	-0.391793				
Kurtosis	4.483262				
Jarque-Bera 10.55277					
Probability	0.005111				

Heteroskedasticity Test: White Null hypothesis: Homoskedasticity

F-statistic	3.387224	Prob. F(11,78)	0.0007
Obs*R-squared	29.09394	Prob. Chi-Square(11)	0.0022
Scaled explained SS	38.05948	Prob. Chi-Square(11)	0.0001

Test Equation:

Dependent Variable: RESID^2 Method: Least Squares Date: 02/08/23 Time: 13:26

Sample: 1 90

Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.026328	0.163830	-0.160702	0.8727
LOG(PRBARR)^2 LOG(PRBCONV)^2	0.008560 0.050107	0.011034 0.010978	0.775780 4.564299	0.4402 0.0000
LOG(PRBPRIS)^2	0.033444	0.020939	1.597176	0.0000
LOG(AVGSEN)^2	-0.001985	0.008751	-0.226894	0.8211
LOG(POLPC)^2	-0.001435	0.002481	-0.578382	0.5647
LOG(DENSITY)^2	-0.009290	0.018492	-0.502395	0.6168
WEST^2	-0.079922	0.042423	-1.883939	0.0633
CENTRAL^2	-0.051803	0.026216	-1.975984	0.0517
URBAN^2	-0.044657	0.056855	-0.785455	0.4346
LOG(PCTMIN)^2	-0.003125	0.003495	-0.894103	0.3740
LOG(PCTYMLE)^2	0.022035	0.012601	1.748713	0.0843
R-squared Adjusted R-squared	0.323266 0.227829	Mean dependent var S.D. dependent var		0.054531 0.102344
S.E. of regression	0.089933	Akaike info criterion		-1.855936
Sum squared resid	0.630861	Schwarz criterion		-1.522628
Log likelihood	95.51712	Hannan-Quinn criter.		-1.721527
F-statistic Prob(F-statistic)	3.387224 0.000726	Durbin-Wats	on stat	1.794985
FIUD(F-Statistic)	0.000720			

Ramsey RESET Test Equation: UNTITLED

Omitted Variables: Squares of fitted values

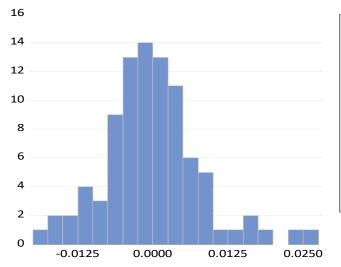
Specification: LOG(CRMRTE) C LOG(PRBARR) LOG(PRBCONV) LOG(PRBPRIS)LOG(AVGSEN) LOG(POLPC) LOG(DENSITY) WEST CENTRAL URBAN LOG(PCTMIN) LOG(PCTYMLE)

	Value	df	Probability
t-statistic	0.513201	77	0.6093
F-statistic	0.263375	(1, 77)	0.6093
Likelihood ratio	0.307316	1	0.5793
F-test summary:			
,	Sum of Sq.	df	Mean Squares
Test SSR	0.016730	1	0.016730
Restricted SSR	4.907790	78	0.062920
Unrestricted SSR	4.891060	77	0.063520
_R test summary:			
	Value		_
Restricted LogL	3.199902		
Unrestricted LogL	3.353560		

Unrestricted Test Equation:
Dependent Variable: LOG(CRMRTE)
Method: Least Squares
Date: 02/08/23 Time: 13:29
Sample: 1 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-2.220017	1.181779	-1.878539	0.0641
LOG(PRBARR)	-0.275909	0.332918	-0.828759	0.4098
LOG(PRBCONV)	-0.209121	0.255517	-0.818424	0.4156
LOG(PRBPRIS)	0.007005	0.125303	0.055908	0.9556
LOG(AVGSEN)	-0.085235	0.143646	-0.593368	0.5547
LOG(POLPC)	0.224340	0.224883	0.997587	0.3216
LOG(DENSITY)	0.243903	0.262315	0.929807	0.3554
WEST	-0.102265	0.147822	-0.691810	0.4911
CENTRAL	-0.135372	0.149745	-0.904018	0.3688
URBAN	-0.055539	0.219589	-0.252921	0.8010
LOG(PCTMIN)	0.128442	0.167122	0.768552	0.4445
LOG(PCTYMLE)	-0.054606	0.171189	-0.318979	0.7506
FITTED^2	-0.049186	0.095842	-0.513201	0.6093
R-squared	0.817496	Mean depe	ndent var	-3.541727
Adjusted R-squared	0.789053	S.D. depen		0.548744
S.E. of regression	0.252032	Akaike info criterion		0.214365
Sum squared resid	4.891060	Schwarz criterion		0.575449
Log likelihood	3.353560	Hannan-Qu	inn criter.	0.359975
F-statistic	28.74232	Durbin-Wat		2.381079
Prob(F-statistic)	0.000000	_ 0.0 77 01		

levels - normality and linearity rejected, homoskedasticity not rejected



Series: Residuals Sample 1 90 Observations 90 Mean -1.92e-18 Median -0.000400 0.025528 Maximum Minimum -0.017932 Std. Dev. 0.007980 0.530007 Skewness Kurtosis 4.207922 Jarque-Bera 9.685147 Probability 0.007887

Heteroskedasticity Test: White Null hypothesis: Homoskedasticity

F-statistic	1.086584	Prob. F(11,78)	0.3830
Obs*R-squared	11.95874	Prob. Chi-Square(11)	0.3668
Scaled explained SS	14.40733	Prob. Chi-Square(11)	0.2113

Test Equation:

Dependent Variable: RESID^2 Method: Least Squares

Sample: 1 90

Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C PRBARR^2 PRBCONV^2 PRBPRIS^2 AVGSEN^2 POLPC^2 DENSITY^2 WEST^2 CENTRAL^2 URBAN^2	0.000126 -0.000480 -5.02E-05 -6.69E-05 -7.28E-08 8.634548 -1.38E-06 3.22E-06 -1.00E-05 2.99E-07	5.37E-05 0.000170 2.16E-05 0.000198 2.43E-07 2.902450 1.88E-06 4.33E-05 3.30E-05 7.17E-05	2.346777 -2.821966 -2.320154 -0.338225 -0.300207 2.974918 -0.736672 0.074381 -0.304042 0.004166	0.0229 0.7361 0.7648 0.0039 0.4635 0.9409 0.7619
PCTMIN^2 PCTYMLE^2	1.55E-08 -0.001403	1.78E-08 0.001875	0.868866 -0.748130	0.3876 0.4566
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.132875 0.010588 0.000113 9.93E-07 696.8072 1.086584 0.383024	Mean depen S.D. depend Akaike info o Schwarz crit Hannan-Qui Durbin-Wats	lent var criterion erion nn criter.	6.30E-05 0.000113 -15.21794 -14.88463 -15.08353 1.963747

Ramsey RESET Test Equation: EQ02

Omitted Variables: Squares of fitted values

Specification: CRMRTE C PRBARR PRBCONV PRBPRISAVGSEN POLPC DENSITY WEST CENTRAL URBAN PCTMIN

	Value	df	Probability
t-statistic	2.795182	77	0.0065
F-statistic	7.813042	(1, 77)	0.0065
Likelihood ratio	8.697951	1	0.0032
F-test summary:			
•	Sum of Sq.	df	Mean Squares
Test SSR	0.000522	1	0.000522
Restricted SSR	0.005668	78	7.27E-05
Unrestricted SSR	0.005146	77	6.68E-05
LR test summary:			
	Value		_
Restricted LogL	307.5700		
Unrestricted LogL	311.9190		

Unrestricted Test Equation: Dependent Variable: CRMRTE Method: Least Squares Date: 02/08/23 Time: 13:49 Sample: 1 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.029587	0.008141	3.634377	0.0005
PRBARR	-0.032084	0.012884	-2.490220	0.0149
PRBCONV	-0.011447	0.003987	-2.870986	0.0053
PRBPRIS	0.000253	0.011262	0.022500	0.9821
AVGSEN	-8.15E-05	0.000387	-0.210608	0.8337
POLPC	3.676219	1.929979	1.904797	0.0605
DENSITY	0.000129	0.002373	0.054500	0.9567
WEST	-0.004091	0.003755	-1.089534	0.2793
CENTRAL	-0.001316	0.002820	-0.466694	0.6420
URBAN	-0.003255	0.005919	-0.549966	0.5839
PCTMIN	9.79E-05	9.96E-05	0.983016	0.3287
PCTYMLE	0.013773	0.042270	0.325838	0.7454
FITTED^2	8.484903	3.035546	2.795182	0.0065
R-squared	0.837921	Mean depe	ndent var	0.033510
Adjusted R-squared	0.812662	S.D. dependent var		0.018887
S.E. of regression	0.008175	Akaike info criterion		-6.642644
Sum squared resid	0.005146	Schwarz criterion		-6.281560
Log likelihood	311.9190	Hannan-Quinn criter.		-6.497034
F-statistic	33.17312	Durbin-Wat		2.436323
Prob(F-statistic)	0.000000			

e) removing variables with p-value greater than 0.05, starting with the variable with highest p-value logs – log(prbpris), log(pctymle), urban, log(avgsen), west

Dependent Variable: LOG(CRMRTE)

Method: Least Squares Date: 02/08/23 Time: 16:48

Sample: 1 90

Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-3.262198	0.486969	-6.698982	0.0000
LOG(PRBARR) LOG(PRBCONV)	-0.433478 -0.337172	0.077422 0.051590	-5.598933 -6.535615	0.0000 0.0000
LOG(POLPC) LOG(DENSITY)	0.277946 0.335329	0.077026 0.045152	3.608451 7.426621	0.0005 0.0000
CENTRAL LOG(PCTMIN)	-0.130321 0.253697	0.060395 0.028271	-2.157822 8.973756	0.0338 0.0000
R-squared	0.805785	Mean depen	dent var	-3.541727
Adjusted R-squared	0.791745	S.D. dependent var		0.548744
S.E. of regression Sum squared resid	0.250419 5.204916	Akaike info criterion Schwarz criterion		0.143226 0.337656
Log likelihood	0.554810	Hannan-Quinn criter.		0.221632
F-statistic Prob(F-statistic)	57.39341 0.000000	Durbin-Wats	on stat	2.244338

levels - prbris, urban, avgsen, pctmile, west, central

Dependent Variable: CRMRTE Method: Least Squares Date: 02/08/23 Time: 13:58

Sample: 1 90

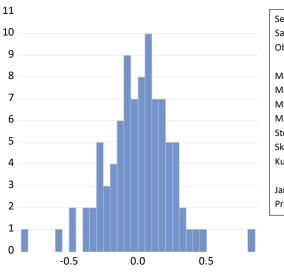
Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C PRBARR PRBCONV POLPC DENSITY PCTMIN	0.033448 -0.066136 -0.021622 8.139469 0.005551 0.000374	0.003541 0.008497 0.002849 1.175639 0.000716 5.54E-05	9.447264 -7.783068 -7.588132 6.923440 7.756349 6.751632	0.0000 0.0000 0.0000 0.0000 0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.804617 0.792987 0.008593 0.006203 303.5094 69.18491 0.000000	Mean depend S.D. depend Akaike info of Schwarz crit Hannan-Quit Durbin-Wats	lent var criterion erion nn criter.	0.033510 0.018887 -6.611320 -6.444666 -6.544115 2.281874

F-statistic provides strong evidence against the joint insignificance of the remaining explanatory variables in both models.

f) logs restricted

- normality rejected, heteroskedasticity rejected, linearity not rejected
- R squared higher in the unrestricted model, adjusted R squared higher and the information criteria lower in the restricted model



Series: Residuals Sample 190 Observations 90 Mean -8.60e-17 Median 0.015230 Maximum 0.831151 Minimum -0.815633 Std. Dev. 0.241831 Skewness -0.183302 4.653022 Kurtosis Jarque-Bera 10.75080 Probability 0.004629

Heteroskedasticity Test: White Null hypothesis: Homoskedasticity

F-statistic	3.891721	Prob. F(6,83)	0.0018
Obs*R-squared	19.76044	Prob. Chi-Square(6)	0.0031
Scaled explained SS	30.69659	Prob. Chi-Square(6)	0.0000

Test Equation:

Dependent Variable: RESID^2 Method: Least Squares Date: 02/08/23 Time: 16:55

Sample: 1 90

Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	0.066173	0.115085	0.574996	0.5668
LOG(PRBARR)^2	0.002135	0.010955	0.194905	0.8459
LOG(PRBCONV)^2	0.049490	0.011675	4.238962	0.0001
LOG(POLPC)^2	-0.001160	0.002541	-0.456552	0.6492
LOG(DENSITY)^2	-0.016324	0.013495	-1.209600	0.2299
CENTRAL^2	-0.025753	0.022695	-1.134767	0.2597
LOG(PCTMIN)^2	0.001308	0.002327	0.562207	0.5755
R-squared	0.219560	Mean depen	dent var	0.057832
Adjusted R-squared	0.163143	S.D. depend		0.111154
S.E. of regression	0.101683	Akaike info criterion		-1.659323
Sum squared resid	0.858176	Schwarz criterion		-1.464893
Log likelihood	81.66953	Hannan-Quinn criter.		-1.580917
F-statistic	3.891721	Durbin-Wats	on stat	1.596984
Prob(F-statistic)	0.001792			

Ramsey RESET Test Equation: MODEL1

Omitted Variables: Squares of fitted values

Specification: LOG(CRMRTE) C LOG(PRBARR) LOG(PRBCONV) LOG(POLPC) LOG(DENSITY) CENTRAL LOG(PCTMIN)

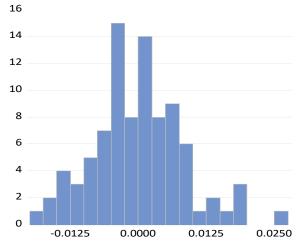
	, ,			
	Value	df	Probability	
t-statistic	1.199396	82	0.2338	
F-statistic	1.438551	(1, 82)	0.2338	
Likelihood ratio	1.565208	1	0.2109	
F-test summary:				
	Sum of Sq.	df	Mean Squares	
Test SSR	0.089737	1	0.089737	
Restricted SSR	5.204916	83	0.062710	
Unrestricted SSR	5.115178	82	0.062380	
LR test summary:				
	Value			
Restricted LogL	0.554810			
Unrestricted LogL	1.337414			

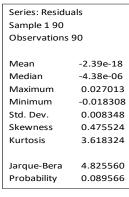
Unrestricted Test Equation:
Dependent Variable: LOG(CRMRTE)
Method: Least Squares

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-2.047540	1.123167	-1.823006	0.0719
LOG(PRBARR)	-0.129615	0.264853	-0.489382	0.6259
LOG(PRBCONV)	-0.101006	0.203516	-0.496305	0.6210
LOG(POLPC)	0.117162	0.154507	0.758294	0.4504
LOG(DENSITY)	0.132738	0.174811	0.759328	0.4498
CENTRAL	-0.050484	0.089773	-0.562358	0.5754
LOG(PCTMIN)	0.078465	0.148796	0.527336	0.5994
FITTED^2	-0.093446	0.077911	-1.199396	0.2338
R-squared	0.809133	Mean depe	ndent var	-3.541727
Adjusted R-squared	0.792839	S.D. depen	dent var	0.548744
S.E. of regression	0.249760	Akaike info criterion		0.148057
Sum squared resid	5.115178	Schwarz criterion		0.370263
Log likelihood	1.337414	Hannan-Qu	inn criter.	0.237664
F-statistic	49.65979	Durbin-Wat	son stat	2.307936
Prob(F-statistic)	0.000000			

levels restricted

- normality not rejected, homoskedasticity rejected, linearity just rejected on the 5% significance level
- R squared and adjusted R squared higher in the unrestricted model, however lower information criteria favor the restricted model





Heteroskedasticity Test: White Null hypothesis: Homoskedasticity

F-statistic	3.155714	Prob. F(5,84)	0.0117
Obs*R-squared	14.23223	Prob. Chi-Square(5)	0.0142
Scaled explained SS	16.23080	Prob. Chi-Square(5)	0.0062

Test Equation:

Dependent Variable: RESID^2 Method: Least Squares Date: 02/08/23 Time: 14:07

Sample: 1 90

Included observations: 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C PRBARR^2 PRBCONV^2 POLPC^2 DENSITY^2 PCTMIN^2	9.98E-05 -0.000483 -5.78E-05 8.670070 -9.85E-07 1.64E-08	1.98E-05 0.000149 1.92E-05 2.457694 1.09E-06 1.19E-08	5.034322 -3.246568 -3.013854 3.527725 -0.901812 1.371837	0.0000 0.0017 0.0034 0.0007 0.3697 0.1738
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.158136 0.108025 0.000106 9.42E-07 699.1554 3.155714 0.011665	Mean depen S.D. depend Akaike info d Schwarz crit Hannan-Qui Durbin-Wats	lent var criterion erion nn criter.	6.89E-05 0.000112 -15.40345 -15.23680 -15.33625 1.934038

Ramsey RESET Test
Equation: EQ02
Omitted Variables: Squares of fitted values
Specification: CRMRTE C PRBARR PRBCONV POLPC DENSITY

	Value	df	Probability
t-statistic	1.991596	83	0.0497
F-statistic	3.966456	(1, 83)	0.0497
Likelihood ratio	4.201369	1	0.0404
F-test summary:			
	0	-1¢	M 0
F-test summary:	Sum of Sq.	df	Mean Squares
F-test summary:	0.000283	1	0.000283
F-test summary:			

Unrestricted Test Equation: Dependent Variable: CRMRTE Method: Least Squares Date: 02/08/23 Time: 14:08 Sample: 1 90

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C PRBARR	0.030249 -0.045387	0.003833 0.013353	7.892623 -3.399100	0.0000 0.0010
PRBCONV POLPC	-0.015172 5.154443	0.004281 1.892463	-3.543773 2.723669	0.0007
DENSITY PCTMIN FITTED^2	0.001460 0.000230	0.002171 9.04E-05	0.672184 2.544902	0.5033 0.0128
R-squared	5.828710 0.813528	2.926652 Mean depe	1.991596 ndent var	0.0497
Adjusted R-squared S.E. of regression	0.800048 0.008445	S.D. depen Akaike info	dent var	0.018887 -6.635780
Sum squared resid Log likelihood	0.005920 305.6101	Schwarz cri Hannan-Qu		-6.441350 -6.557374
F-statistic Prob(F-statistic)	60.35122 0.000000	Durbin-Wat	son stat	2.236579

logs restricted

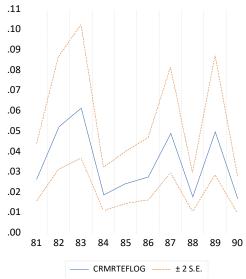
Dependent Variable: LOG(CRMRTE)

Method: Least Squares Date: 02/08/23 Time: 17:12

Sample: 180

Included observations: 80

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-2.916962	0.517993	-5.631283	0.0000
LOG(PRBARR)	-0.439749	0.079399	-5.538443	0.0000
LOG(PRBCONV)	-0.270739	0.056074	-4.828282	0.0000
LOG(POLPC)	0.329649	0.082087	4.015839	0.0001
LOG(DENSITY)	0.336533	0.046208	7.283052	0.0000
CENTRAL	-0.128638	0.063474	-2.026636	0.0464
LOG(PCTMIN)	0.264542	0.030080	8.794563	0.0000
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.812991 0.797620 0.246458 4.434136 2.192674 52.89245 0.000000	Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat		-3.549065 0.547847 0.120183 0.328610 0.203748 2.200387



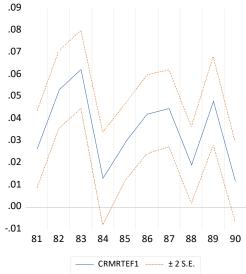
Forecast: CRMRTEFLOG Actual: CRMRTE Forecast sample: 81 90 Included observations: 10 0.010287 Root Mean Squared Error Mean Absolute Error 0.008285 Mean Abs. Percent Error 27.84619 Theil Inequality Coef. 0.132112 **Bias Proportion** 0.003568 Variance Proportion 0.035055 **Covariance Proportion** 0.961377 Theil U2 Coefficient 0.498763 Symmetric MAPE 25.60493

levels restricted

Dependent Variable: CRMRTE Method: Least Squares Date: 02/08/23 Time: 14:20 Sample: 180

Included observations: 80

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	0.032139	0.003876	8.292810	0.0000
PRBARR	-0.069045	0.009012	-7.661498	0.0000
PRBCONV	-0.019942	0.003541	-5.632084	0.0000
POLPC	8.885059	1.279170	6.945956	0.0000
DENSITY	0.005590	0.000736	7.596592	0.0000
PCTMIN	0.000370	6.02E-05	6.137786	0.0000
R-squared	0.810675	Mean depen	dent var	0.033281
Adjusted R-squared	0.797882	S.D. depend	ent var	0.018991
S.E. of regression	0.008538	Akaike info o	riterion	-6.616556
Sum squared resid	0.005394	Schwarz crite	erion	-6.437904
Log likelihood	270.6622	Hannan-Quir	nn criter.	-6.544929
F-statistic	63.37228	Durbin-Wats	on stat	2.225521
Prob(F-statistic)	0.000000			



Forecast: CRMRTEF1 Actual: CRMRTE Forecast sample: 81 90 Included observations: 10 Root Mean Squared Error 0.009486 Mean Absolute Error 0.007341 Mean Abs. Percent Error 21.52598 Theil Inequality Coef. 0.120848 **Bias Proportion** 0.000609 Variance Proportion 0.017614 0.981777 Covariance Proportion Theil U2 Coefficient 0.390772 Symmetric MAPE 20 68424

h) RMSE of the forecast is lower in the levels restricted model than in the restricted log model (0.010287 > 0.009486) indicating that this model is better for forecasting