The CONTENTS Procedure

Data Set Name	WORK.DATA	Observations	43
Member Type	DATA	Variables	13
Engine	V9	Indexes	0
Created	04/28/2017 10:45:08	Observation Length	104
Last Modified	04/28/2017 10:45:08	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information				
Data Set Page Size	65536			
Number of Data Set Pages	1			
First Data Page	1			
Max Obs per Page	629			
Obs in First Data Page	43			
Number of Data Set Repairs	0			
ExtendObsCounter	YES			
Filename	C:\Users\pshinde\AppData\Local\Temp\5\SAS Temporary Files_TD6096_IU-CV-IUAW-91_\data.sas7bdat			
Release Created	9.0401M2			
Host Created	X64_SRV12			

Δ	Alphabetic List of Variables and Attributes								
#	Variable	ole Type		Format	Label				
2	agriland	Num	8	BEST.	agriland				
12	airtrans	Num	8	BEST.	airtrans				
13	cement	Num	8	BEST.	cement				
6	electric	Num	8	BEST.	electric				
3	energy	Num	8	BEST.	energy				
10	export	Num	8	BEST.	export				
11	fish	Num	8	BEST.	fish				
4	fossil	Num	8	BEST.	fossil				
9	gdp	Num	8	BEST.	gdp				
7	ghg	Num	8	BEST.	ghg				
8	8 pop Nu		8	BEST.	рор				
5	popgrowth	Num	8	BEST.	popgrowth				
1	year	Num	8	BEST.	year				

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	9.302813E12	9.302813E12	152.77	<.0001	
Error	41	2.496725E12	60895729855			
Corrected Total	42	1.179954E13				

Root MSE	246771	R-Square	0.7884	
Dependent Mean	6267232	Adj R-Sq	0.7832	
Coeff Var	3.93747			

Parameter Estimates							
Variable	Label	DF	Parameter Estimate		t Value	Pr > t	
Intercept	Intercept	1	5518504	71315	77.38	<.0001	
airtrans	airtrans	1	38.03515	3.07731	12.36	<.0001	

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares		F Value	Pr > F	
Model	1	9.514546E12	9.514546E12	170.72	<.0001	
Error	41	2.284992E12	55731500224			
Corrected Total	42	1.179954E13				

Root MSE	236075	R-Square	0.8063
Dependent Mean	6267232	Adj R-Sq	0.8016
Coeff Var	3.76682		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate		t Value	Pr > t	
Intercept	Intercept	1	3541554	211692	16.73	<.0001	
electric	electric	1	239.60868	18.33829	13.07	<.0001	

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	95972035268	95972035268	0.34	0.5652	
Error	41	1.170357E13	2.854528E11			
Corrected Total	42	1.179954E13				

Root MSE	534278	R-Square	0.0081
Dependent Mean	6267232	Adj R-Sq	-0.0161
Coeff Var	8.52494		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	5178272	1879815	2.75	0.0087
energy	energy	1	141.19341	243.50576	0.58	0.5652

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	6.813011E12	6.813011E12	56.02	<.0001	
Error	41	4.986527E12	1.216226E11			
Corrected Total	42	1.179954E13				

Root MSE	348744	R-Square	0.5774
Dependent Mean	6267232	Adj R-Sq	0.5671
Coeff Var	5.56457		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	5775297	84549	68.31	<.0001
export	export	1	0.71371	0.09536	7.48	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	6.042072E12	6.042072E12	43.03	<.0001	
Error	41	5.757465E12	1.40426E11			
Corrected Total	42	1.179954E13				

Root MSE	374735	R-Square	0.5121
Dependent Mean	6267232	Adj R-Sq	0.5002
Coeff Var	5.97927		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	15575865	1420262	10.97	<.0001
fossil	fossil	1	-105503	16084	-6.56	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	8.760469E12	8.760469E12	118.19	<.0001	
Error	41	3.039069E12	74123622483			
Corrected Total	42	1.179954E13				

Root MSE	272257	R-Square	0.7424
Dependent Mean	6267232	Adj R-Sq	0.7362
Coeff Var	4.34413		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	2776201	323794	8.57	<.0001
рор	pop	1	0.01359	0.00125	10.87	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	7.312928E12	7.312928E12	66.83	<.0001	
Error	41	4.48661E12	1.094295E11			
Corrected Total	42	1.179954E13				

Root MSE	330801	R-Square	0.6198
Dependent Mean	6267232	Adj R-Sq	0.6105
Coeff Var	5.27827		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	3151213	384496	8.20	<.0001
cement	cement	1	40.65510	4.97321	8.17	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	3.938695E12	3.938695E12	20.54	<.0001	
Error	41	7.860843E12	1.917279E11			
Corrected Total	42	1.179954E13				

Root MSE	437867	R-Square	0.3338
Dependent Mean	6267232	Adj R-Sq	0.3176
Coeff Var	6.98662		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	4851852	319336	15.19	<.0001
fish	fish	1	293.92296	64.84851	4.53	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	9.484627E12	9.484627E12	167.98	<.0001	
Error	41	2.314911E12	56461241758			
Corrected Total	42	1.179954E13				

Root MSE	237616	R-Square	0.8038
Dependent Mean	6267232	Adj R-Sq	0.7990
Coeff Var	3.79140		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	28993849	1753851	16.53	<.0001
agriland	agriland	1	-5383.52634	415.36694	-12.96	<.0001

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	83274319274	83274319274	0.29	0.5922	
Error	41	1.171626E13	2.857625E11			
Corrected Total	42	1.179954E13				

Root MSE	534568	R-Square	0.0071
Dependent Mean	6267232	Adj R-Sq	-0.0172
Coeff Var	8.52956		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	6564000	555760	11.81	<.0001
popgrowth	popgrowth	1	-291277	539577	-0.54	0.5922

Number of Observations Re	ead 43
Number of Observations Us	sed 43

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9.212891E12	9.212891E12	146.03	<.0001
Error	41	2.586647E12	63088958262		
Corrected Total	42	1.179954E13			

Root MSE	251175	R-Square	0.7808
Dependent Mean	6267232	Adj R-Sq	0.7754
Coeff Var	4.00775		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate		t Value	Pr > t
Intercept	Intercept	1	4969943	113982	43.60	<.0001
gdp	gdp	1	0.13278	0.01099	12.08	<.0001

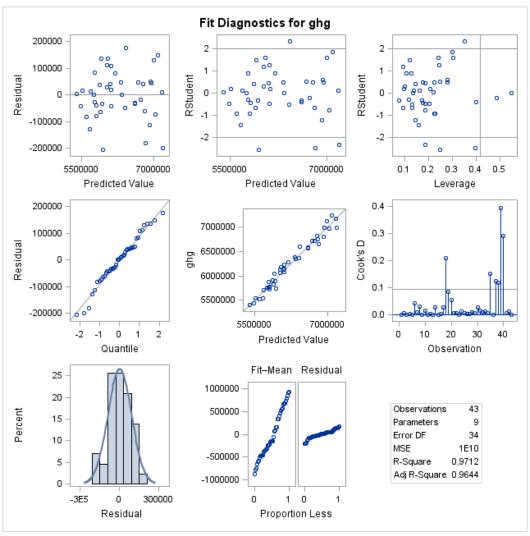
Number of Observations Read	43
Number of Observations Used	43

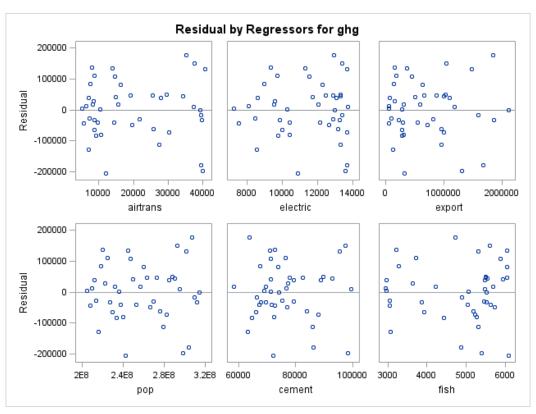
	Analysis of Variance											
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F							
Model	8	1.14593E13	1.432413E12	143.14	<.0001							
Error	34	3.40234E11	10006881542									
Corrected Total	42	1.179954E13										

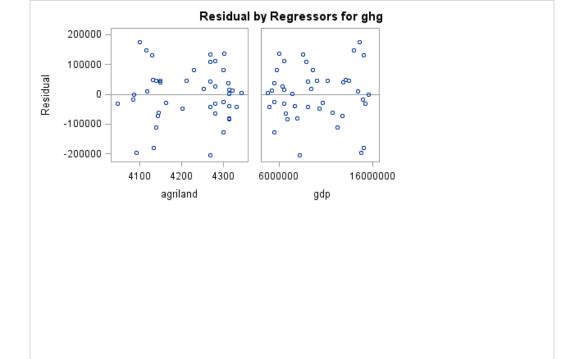
Root MSE	100034	R-Square	0.9712	
Dependent Mean	6267232	Adj R-Sq	0.9644	
Coeff Var	1.59615			

			Pa	rameter Est	timates			
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	21183204	4945376	4.28	0.0001	0	0
airtrans	airtrans	1	-5.39652	17.45141	-0.31	0.7590	-0.12598	195.70684
electric	electric	1	224.24029	51.30655	4.37	0.0001	0.84037	43.59431
export	export	1	-0.54225	0.22426	-2.42	0.0211	-0.57732	67.21842
pop	рор	1	-0.02112	0.01108	-1.91	0.0651	-1.33885	581.74068
cement	cement	1	5.63873	4.02068	1.40	0.1699	0.10919	7.14760
fish	fish	1	-142.34638	44.50951	-3.20	0.0030	-0.27981	9.02593
agriland	agriland	1	-3272.37836	907.27495	-3.61	0.0010	-0.54497	26.91942
gdp	gdp	1	0.25641	0.13237	1.94	0.0611	1.70639	915.05783

	Collinearity Diagnostics													
		Condition				Proj	portion of Vari	ation						
Number			Intercept	airtrans	electric	export	рор	cement	fish	agriland	gdp			
1	8.48478	1.00000	1.2596E-7	0.00001753	0.00000916	0.00006468	3.893182E-7	0.00003240	0.00006537	2.079693E-7	0.00000169			
2	0.46287	4.28144	0.00000195	0.00070053	0.00001370	0.00554	9.852947E-7	0.00025351	0.00022637	0.00000388	0.00000850			
3	0.02642	17.92135	0.00001301	0.00323	0.00077133	0.00028819	0.00000333	0.01535	0.12126	0.00002182	0.00001311			
4	0.02201	19.63327	0.00003896	0.01605	0.00021458	0.08234	0.00003873	0.01682	0.00764	0.00007548	0.00013025			
5	0.00226	61.25766	0.00013632	0.11838	0.00585	0.37704	0.00050603	0.54382	0.05029	0.00021388	0.00052896			
6	0.00141	77.60049	0.00019009	0.07341	0.32858	0.00075317	0.00001863	0.00000156	0.45008	0.00060141	0.00139			
7	0.00021051	200.76091	0.00058361	0.66267	0.32159	0.45331	0.00467	0.01117	0.30705	0.00016338	0.42182			
8	0.00003169	517.42530	0.00006257	0.00099227	0.32493	0.06901	0.60638	0.23184	0.01740	0.11723	0.25889			
9	0.00000565	1225.82180	0.99897	0.12456	0.01804	0.01165	0.38838	0.18071	0.04600	0.88169	0.31722			







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8 Variables: airtrans electric export pop cement fish agriland gdp

	Simple Statistics													
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label							
airtrans	43	19685	12374	846463	5151	40618	airtrans							
electric	43	11376	1986	489148	7237	13705	electric							
export	43	689265	564317	29638413	51900	2106371	export							
рор	43	256839822	33600649	1.10441E10	205052000	314102623	рор							
cement	43	76645	10264	3295744	58369	99319	cement							
fish	43	4815	1042	207066	2946	6078	fish							
agriland	43	4222	88.27112	181525	4047	4344	agriland							
gdp	43	9770296	3527314	420122735	4779684	15542162	gdp							

		Pears	son Correl Prob > ı	ation Coe		I = 43		
	airtrans	electric	export	pop	cement	fish	agriland	gdp
airtrans	1.00000	0.88802	0.95348	0.97490	0.60925	0.56077	-0.96942	0.98771
airtrans		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
electric	0.88802	1.00000	0.83794	0.94298	0.56488	0.81902	-0.89420	0.93525
electric	<.0001		<.0001	<.0001	<.0001	<.0001	<.0001	<.0001
export	0.95348	0.83794	1.00000	0.96452	0.39481	0.53318	-0.94000	0.96008
export	<.0001	<.0001		<.0001	0.0088	0.0002	<.0001	<.0001
pop	0.97490 <.0001	0.94298 <.0001	0.96452 <.0001	1.00000	0.51005 0.0005	0.68487 <.0001	-0.96236 <.0001	0.99577 <.0001
cement	0.60925	0.56488	0.39481	0.51005	1.00000	0.31396	-0.56647	0.56848
cement	<.0001	<.0001	0.0088	0.0005		0.0403	<.0001	<.0001
fish fish	0.56077 <.0001	0.81902 <.0001	0.53318 0.0002	0.68487 <.0001	0.31396 0.0403	1.00000	-0.55548 0.0001	0.66085 <.0001
agriland agriland	-0.96942 <.0001	-0.89420 <.0001	-0.94000 <.0001	-0.96236 <.0001	-0.56647 <.0001	-0.55548 0.0001	1.00000	-0.96516 <.0001
gdp	0.98771	0.93525	0.96008	0.99577	0.56848	0.66085	-0.96516	1.00000
gdp	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	

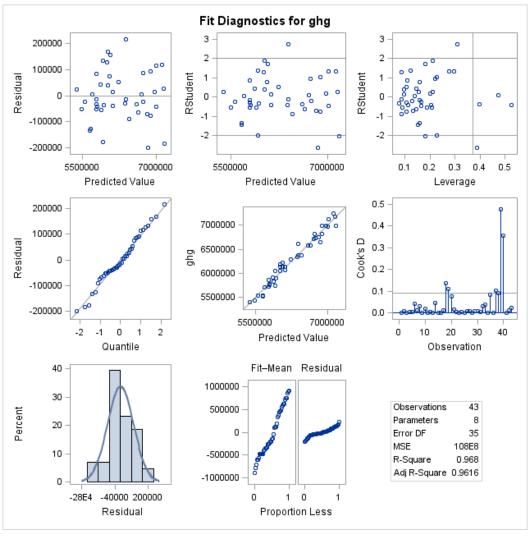
Number of Observations Read	43
Number of Observations Used	43

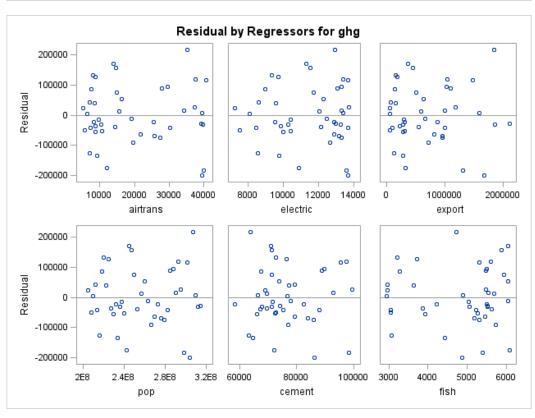
Analysis of Variance											
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F						
Model	7	1.142176E13	1.63168E12	151.17	<.0001						
Error	35	3.777809E11	10793740496								
Corrected Total	42	1.179954E13									

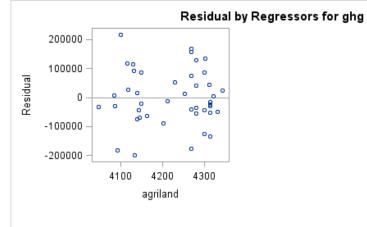
Root MSE	103893	R-Square	0.9680	
Dependent Mean	6267232	Adj R-Sq	0.9616	
Coeff Var	1.65772			

			Pa	rameter Est	timates			
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	15905628	4286360	3.71	0.0007	0	0
airtrans	airtrans	1	18.68244	12.72097	1.47	0.1509	0.43614	96.40786
electric	electric	1	237.21413	52.82955	4.49	<.0001	0.88900	42.85138
export	export	1	-0.37697	0.21539	-1.75	0.0889	-0.40134	57.48628
pop	рор	1	-0.00605	0.00819	-0.74	0.4653	-0.38340	294.85887
cement	cement	1	10.07086	3.43365	2.93	0.0059	0.19501	4.83282
fish	fish	1	-113.53809	43.56942	-2.61	0.0134	-0.22318	8.01820
agriland	agriland	1	-2633.31020	877.76251	-3.00	0.0049	-0.43854	23.35978

	Collinearity Diagnostics													
	Eigenvalue	Condition				Proportion	of Variation							
Number			Intercept	airtrans	electric	export	рор	cement	fish	agriland				
1	7.50248	1.00000	2.330224E-7	0.00004495	0.00001194	0.00009509	9.851748E-7	0.00006158	0.00009438	3.090183E-7				
2	0.44610	4.10098	0.00000255	0.00168	0.00000839	0.00748	0.00000134	0.00031929	0.00019234	0.00000412				
3	0.02634	16.87635	0.00001578	0.00713	0.00080124	0.00136	0.00000403	0.02415	0.13604	0.00002109				
4	0.02141	18.72096	0.00005871	0.03770	0.00039008	0.08612	0.00006874	0.02547	0.01559	0.00009196				
5	0.00224	57.90656	0.00020970	0.28901	0.00582	0.41526	0.00106	0.79053	0.03907	0.00026343				
6	0.00138	73.60047	0.00025396	0.09559	0.36816	0.00224	0.00007439	0.00021526	0.46789	0.00068251				
7	0.00004791	395.71650	0.00907	0.56789	0.60840	0.47926	0.89525	0.14273	0.09536	0.05351				
8	0.00000793	972.88731	0.99039	0.00094943	0.01641	0.00820	0.10354	0.01652	0.24577	0.94543				







The CORR Procedure

7 Variables: airtrans electric export pop cement fish agriland

	Simple Statistics													
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label							
airtrans	43	19685	12374	846463	5151	40618	airtrans							
electric	43	11376	1986	489148	7237	13705	electric							
export	43	689265	564317	29638413	51900	2106371	export							
рор	43	256839822	33600649	1.10441E10	205052000	314102623	рор							
cement	43	76645	10264	3295744	58369	99319	cement							
fish	43	4815	1042	207066	2946	6078	fish							
agriland	43	4222	88.27112	181525	4047	4344	agriland							

	Pearson Correlation Coefficients, N = 43 Prob > r under H0: Rho=0									
	airtrans	electric	export	pop	cement	fish	agriland			
airtrans airtrans	1.00000	0.88802 <.0001	0.95348 <.0001	0.97490 <.0001	0.60925 <.0001	0.56077 <.0001	-0.96942 <.0001			
electric electric	0.88802 <.0001	1.00000	0.83794 <.0001	0.94298 <.0001	0.56488 <.0001	0.81902 <.0001	-0.89420 <.0001			
export export	0.95348 <.0001	0.83794 <.0001	1.00000	0.96452 <.0001	0.39481 0.0088	0.53318 0.0002	-0.94000 <.0001			
pop pop	0.97490 <.0001	0.94298 <.0001	0.96452 <.0001	1.00000	0.51005 0.0005	0.68487 <.0001	-0.96236 <.0001			
cement cement	0.60925 <.0001	0.56488 <.0001	0.39481 0.0088	0.51005 0.0005	1.00000	0.31396 0.0403	-0.56647 <.0001			
fish fish	0.56077 <.0001	0.81902 <.0001	0.53318 0.0002	0.68487 <.0001	0.31396 0.0403	1.00000	-0.55548 0.0001			
agriland agriland	-0.96942 <.0001	-0.89420 <.0001	-0.94000 <.0001	-0.96236 <.0001	-0.56647 <.0001	-0.55548 0.0001	1.00000			

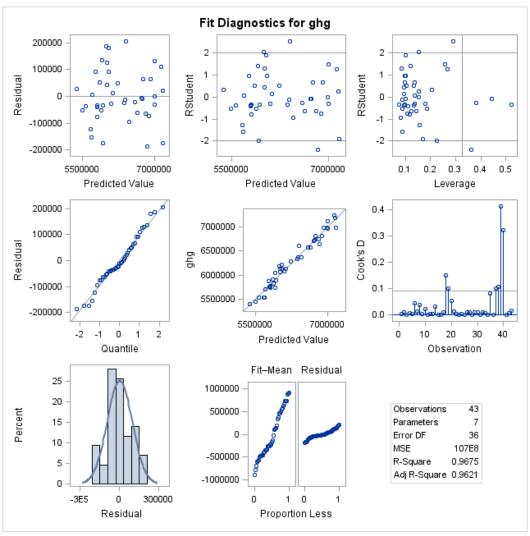
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Number of Observations Used	43

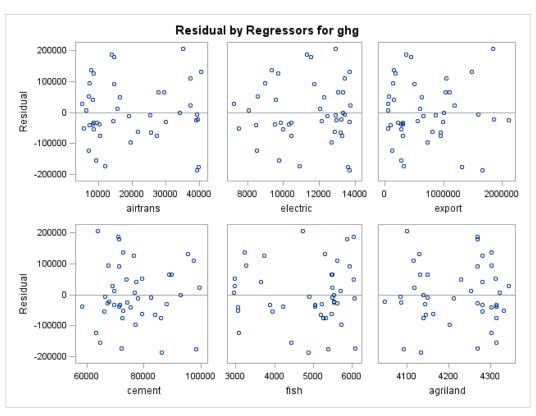
Analysis of Variance									
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F				
Model	6	1.141587E13	1.902646E12	178.53	<.0001				
Error	36	3.836633E11	10657314166						
Corrected Total	42	1.179954E13							

Root MSE	103234	R-Square	0.9675
Dependent Mean	6267232	Adj R-Sq	0.9621
Coeff Var	1.64721		

Parameter Estimates										
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation		
Intercept	Intercept	1	14608495	3884884	3.76	0.0006	0	0		
airtrans	airtrans	1	12.01894	8.90690	1.35	0.1856	0.28058	47.86843		
electric	electric	1	210.33161	38.03159	5.53	<.0001	0.78825	22.49180		
export	export	1	-0.48866	0.15232	-3.21	0.0028	-0.52027	29.11771		
cement	cement	1	11.00552	3.17147	3.47	0.0014	0.21311	4.17575		
fish	fish	1	-128.51991	38.30990	-3.35	0.0019	-0.25263	6.27855		
agriland	agriland	1	-2572.13799	868.30249	-2.96	0.0054	-0.42836	23.15159		

	Collinearity Diagnostics									
		Condition		Proportion of Variation						
Number	Eigenvalue	Index	Intercept	airtrans	electric	export	cement	fish	agriland	
1	6.50892	1.00000	3.702514E-7	0.00012130	0.00003018	0.00025226	0.00009441	0.00015989	4.119635E-7	
2	0.44053	3.84386	0.00000350	0.00325	0.00002477	0.01451	0.00044649	0.00032621	0.00000471	
3	0.02629	15.73455	0.00001847	0.01668	0.00137	0.00386	0.03073	0.16802	0.00002057	
4	0.02075	17.71321	0.00009440	0.07442	0.00054511	0.18560	0.02398	0.02172	0.00012249	
5	0.00212	55.34798	0.00048318	0.64904	0.01434	0.75293	0.94276	0.03781	0.00053409	
6	0.00138	68.63943	0.00023849	0.16811	0.72278	0.00300	0.00191	0.60079	0.00057838	
7	0.00000868	866.13673	0.99916	0.08837	0.26091	0.03984	0.00008569	0.17119	0.99874	





The CORR Procedure

6 Variables: airtrans electric export cement fish agriland

	Simple Statistics								
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label		
airtrans	43	19685	12374	846463	5151	40618	airtrans		
electric	43	11376	1986	489148	7237	13705	electric		
export	43	689265	564317	29638413	51900	2106371	export		
cement	43	76645	10264	3295744	58369	99319	cement		
fish	43	4815	1042	207066	2946	6078	fish		
agriland	43	4222	88.27112	181525	4047	4344	agriland		

	Pearson Correlation Coefficients, N = 43 Prob > r under H0: Rho=0								
	airtrans	electric	export	cement	fish	agriland			
airtrans	1.00000	0.88802	0.95348	0.60925	0.56077	-0.96942			
airtrans		<.0001	<.0001	<.0001	<.0001	<.0001			
electric	0.88802	1.00000	0.83794	0.56488	0.81902	-0.89420			
electric	<.0001		<.0001	<.0001	<.0001	<.0001			
export	0.95348	0.83794	1.00000	0.39481	0.53318	-0.94000			
export	<.0001	<.0001		0.0088	0.0002	<.0001			
cement	0.60925	0.56488	0.39481	1.00000	0.31396	-0.56647			
cement	<.0001	<.0001	0.0088		0.0403	<.0001			
fish fish	0.56077 <.0001	0.81902 <.0001	0.53318 0.0002	0.31396 0.0403	1.00000	-0.55548 0.0001			
agriland agriland	-0.96942 <.0001	-0.89420 <.0001	-0.94000 <.0001	-0.56647 <.0001	-0.55548 0.0001	1.00000			

The REG Procedure Model: MODEL1 Dependent Variable: airtrans airtrans

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance									
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F				
Model	5	6296151214	1259230243	346.83	<.0001				
Error	37	134336714	3630722						
Corrected Total	42	6430487928							

Root MSE	1905.44536	R-Square	0.9791
Dependent Mean	19685	Adj R-Sq	0.9763
Coeff Var	9.67959		

	Parameter Estimates												
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation					
Intercept	Intercept	1	120074	68935	1.74	0.0898	0	0					
electric	electric	1	0.42227	0.69853	0.60	0.5492	0.06779	22.27183					
export	export	1	0.01335	0.00176	7.60	<.0001	0.60889	11.37046					
cement	cement	1	0.24846	0.04193	5.93	<.0001	0.20609	2.14253					
fish	fish	1	-0.10555	0.70689	-0.15	0.8821	-0.00889	6.27477					
agriland	agriland	1	-31.48869	15.16761	-2.08	0.0449	-0.22463	20.73613					

The REG Procedure Model: MODEL1 Dependent Variable: electric electric

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance									
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F				
Model	5	158354922	31670984	159.04	<.0001				
Error	37	7368155	199139						
Corrected Total	42	165723078							

Root MSE	446.25031	R-Square	0.9555	
Dependent Mean	11376	Adj R-Sq	0.9495	
Coeff Var	3.92289			

	Parameter Estimates											
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation				
Intercept	Intercept	1	53266	14329	3.72	0.0007	0	0				
airtrans	airtrans	1	0.02316	0.03831	0.60	0.5492	0.14427	47.40028				
export	export	1	-0.00014569	0.00065799	-0.22	0.8260	-0.04139	29.07918				
cement	cement	1	0.01262	0.01355	0.93	0.3576	0.06523	4.08006				
fish	fish	1	0.88123	0.08022	10.98	<.0001	0.46221	1.47341				
agriland	agriland	1	-11.24166	3.26688	-3.44	0.0015	-0.49955	17.53868				

The REG Procedure Model: MODEL1 Dependent Variable: export export

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance										
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F					
Model	5	1.291572E13	2.583143E12	208.07	<.0001					
Error	37	4.593445E11	12414717424							
Corrected Total	42	1.337506E13								

Root MSE	111421	R-Square	0.9657
Dependent Mean	689265	Adj R-Sq	0.9610
Coeff Var	16.16523		

	Parameter Estimates												
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation					
Intercept	Intercept	1	5502434	4094237	1.34	0.1871	0	0					
airtrans	airtrans	1	45.65189	6.00733	7.60	<.0001	1.00100	18.69262					
electric	electric	1	-9.08268	41.02055	-0.22	0.8260	-0.03197	22.46204					
cement	cement	1	-15.86530	2.21673	-7.16	<.0001	-0.28856	1.75126					
fish	fish	1	-0.91224	41.34783	-0.02	0.9825	-0.00168	6.27847					
agriland	agriland	1	-1039.46711	921.45202	-1.13	0.2666	-0.16259	22.38181					

The REG Procedure Model: MODEL1 Dependent Variable: agriland agriland

Number of Observations Read 43 Number of Observations Used 43

Analysis of Variance										
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F					
Model	5	313120	62624	163.92	<.0001					
Error	37	14135	382.03570							
Corrected Total	42	327255								

Root MSE	19.54573	R-Square	0.9568
Dependent Mean	4221.51109	Adj R-Sq	0.9510
Coeff Var	0.46300		

Parameter Estimates											
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation			
Intercept	Intercept	1	4464.89528	47.19275	94.61	<.0001	0	0			
airtrans	airtrans	1	-0.00331	0.00160	-2.08	0.0449	-0.46446	42.87419			
electric	electric	1	-0.02157	0.00627	-3.44	0.0015	-0.48532	17.03884			
export	export	1	-0.00003199	0.00002836	-1.13	0.2666	-0.20449	28.14955			
cement	cement	1	0.00004750	0.00060042	0.08	0.9374	0.00552	4.17504			
fish	fish	1	0.01777	0.00664	2.68	0.0110	0.20975	5.25996			

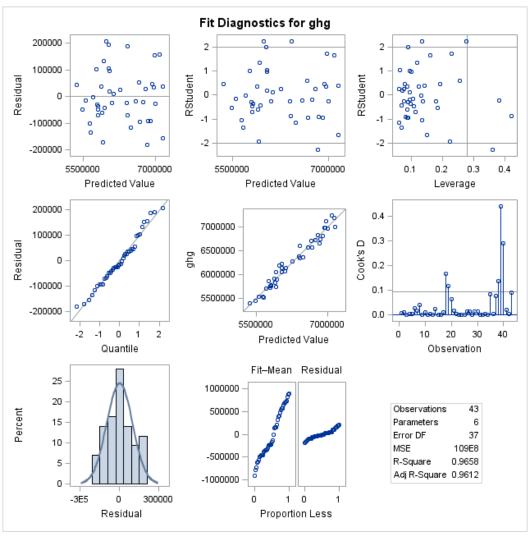
Number of Observations Read	43
Number of Observations Used	43

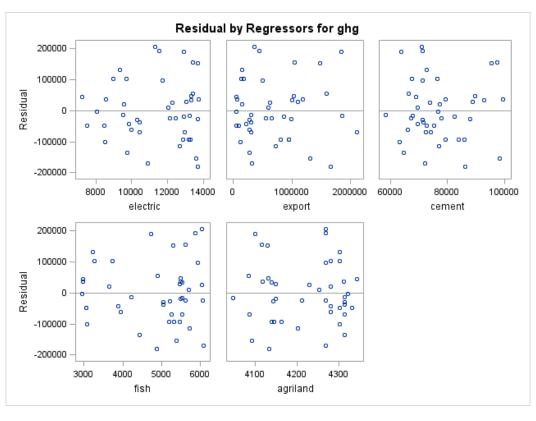
Analysis of Variance						
Source DF		Sum of Mean Squares		F Value	Pr > F	
Model	5	1.139647E13	2.279294E12	209.23	<.0001	
Error	37	4.030689E11	10893754247			
Corrected Total	42	1.179954E13				

Root MSE	104373	R-Square	0.9658	
Dependent Mean	6267232	Adj R-Sq	0.9612	
Coeff Var	1.66538			

	Parameter Estimates										
Variable Label DF		Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation				
Intercept	Intercept	1	16051657	3775974	4.25	0.0001	0	0			
electric	electric	1	215.40681	38.26267	5.63	<.0001	0.80727	22.27183			
export	export	1	-0.32820	0.09623	-3.41	0.0016	-0.34942	11.37046			
cement	cement	1	13.99176	2.29679	6.09	<.0001	0.27094	2.14253			
fish	fish	1	-129.78845	38.72087	-3.35	0.0019	-0.25512	6.27477			
agriland	agriland	1	-2950.59862	830.82457	-3.55	0.0011	-0.49138	20.73613			

	Collinearity Diagnostics									
		Condition			Proportion (of Variation				
Number	Eigenvalue	Index	Intercept	electric	export	cement	fish	agriland		
1	5.64475	1.00000	5.440763E-7	0.00004067	0.00080753	0.00024747	0.00021457	6.262108E-7		
2	0.31782	4.21438	0.00000367	2.424486E-7	0.08948	0.00073933	0.00008613	0.00000544		
3	0.02522	14.95982	0.00005294	0.00160	0.03857	0.03096	0.19073	0.00006391		
4	0.01071	22.95361	0.00024791	0.00258	0.03321	0.46945	0.00056932	0.00036911		
5	0.00148	61.66330	0.00002068	0.67222	0.31479	0.39817	0.61359	0.00016729		
6	0.00000951	770.28439	0.99967	0.32356	0.52315	0.10043	0.19481	0.99939		





The REG Procedure Model: MODEL1 Dependent Variable: electric electric

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	4	158282150	39570538	202.08	<.0001	
Error	38	7440928	195814			
Corrected Total	42	165723078				

Root MSE	SE 442.50863		0.9551	
Dependent Mean	11376	Adj R-Sq	0.9504	
Coeff Var	3.89000			

Parameter Estimates										
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation		
Intercept	Intercept	1	56600	13114	4.32	0.0001	0	0		
export	export	1	0.00016514	0.00040712	0.41	0.6873	0.04692	11.32144		
cement	cement	1	0.01856	0.00926	2.00	0.0522	0.09590	1.93771		
fish	fish	1	0.88747	0.07889	11.25	<.0001	0.46548	1.44906		
agriland	agriland	1	-12.08919	2.92600	-4.13	0.0002	-0.53722	14.30845		

The REG Procedure Model: MODEL1 Dependent Variable: export export

Num	Number of Observations Read	43
	Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Mean Squares		F Value	Pr > F		
Model	4	1.219876E13	3.049691E12	98.52	<.0001		
Error	38	1.176299E12	30955226562				
Corrected Total	42	1.337506E13					

Root MSE	175941	R-Square	0.9121
Dependent Mean	689265	Adj R-Sq	0.9028
Coeff Var	25.52587		

	Parameter Estimates												
Variable	Yariable Label DF Parameter Standard Error t Value Pr > t Standardized Estimate							Variance Inflation					
Intercept	Intercept	1	28128145	4437794	6.34	<.0001	0	0					
electric	electric	1	26.10655	64.35988	0.41	0.6873	0.09190	22.17581					
cement	cement	1	-11.58150	3.38529	-3.42	0.0015	-0.21064	1.63802					
fish	fish	1	-14.67499	65.22804	-0.22	0.8232	-0.02709	6.26643					
agriland	agriland	1	-6343.11308	950.06433	-6.68	<.0001	-0.99220	9.54242					

The REG Procedure Model: MODEL1 Dependent Variable: agriland agriland

Number of Observations Read 43 Number of Observations Used 43

Analysis of Variance										
Source Sum of Square Square F Value Pr > I										
Model	4	311473	77868	187.49	<.0001					
Error	38	15782	415.31280							
Corrected Total	42	327255								

Root MSE	20.37922	R-Square	0.9518
Dependent Mean	4221.51109	Adj R-Sq	0.9467
Coeff Var	0.48275		

Parameter Estimates												
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation				
Intercept	Intercept	1	4540.80370	31.10919	145.96	<.0001	0	0				
export	export	1	-0.00008510	0.00001275	-6.68	<.0001	-0.54406	5.23250				
electric	electric	1	-0.02564	0.00621	-4.13	0.0002	-0.57700	15.36813				
cement	cement	1	-0.00086610	0.00042588	-2.03	0.0490	-0.10071	1.93223				
fish	fish	1	0.02023	0.00681	2.97	0.0051	0.23880	5.09232				

The CORR Procedure

5 Variables: electric export cement fish agriland

	Simple Statistics												
Variable	ariable N Mean Std Dev Sum Minimum Maximum												
electric	43	11376	1986	489148	7237	13705	electric						
export	43	689265	564317	29638413	51900	2106371	export						
cement	43	76645	10264	3295744	58369	99319	cement						
fish	43	4815	1042	207066	2946	6078	fish						
agriland	43	4222	88.27112	181525	4047	4344	agriland						

	Pearson Correlation Coefficients, N = 43 Prob > r under H0: Rho=0											
	electric	export	cement	fish	agriland							
electric	1.00000	0.83794	0.56488	0.81902	-0.89420							
electric		<.0001	<.0001	<.0001	<.0001							
export	0.83794	1.00000	0.39481	0.53318	-0.94000							
export	<.0001		0.0088	0.0002	<.0001							
cement	0.56488	0.39481	1.00000	0.31396	-0.56647							
cement	<.0001	0.0088		0.0403	<.0001							
fish	0.81902	0.53318	0.31396	1.00000	-0.55548							
fish	<.0001	0.0002	0.0403		0.0001							
agriland	-0.89420	-0.94000	-0.56647	-0.55548	1.00000							
agriland	<.0001	<.0001	<.0001	0.0001								

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance										
Source DF Sum of Square F Value										
Model	4	1.105121E13	2.762802E12	140.29	<.0001					
Error	38	7.483286E11	19692858807							
Corrected Total	42	1.179954E13								

Root MSE	140331	R-Square	0.9366
Dependent Mean	6267232	Adj R-Sq	0.9299
Coeff Var	2.23913		

Parameter Estimates												
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation				
Intercept	Intercept	1	28243747	4158838	6.79	<.0001	0	0				
export	export	1	-0.29263	0.12911	-2.27	0.0292	-0.31155	11.32144				
cement	cement	1	17.98958	2.93676	6.13	<.0001	0.34835	1.93771				
fish	fish	1	61.37781	25.01810	2.45	0.0189	0.12065	1.44906				
agriland	agriland	1	-5554.69266	927.91334	-5.99	<.0001	-0.92506	14.30845				

	Collinearity Diagnostics												
		Condition		Pro	portion of Va	ariation							
Number	Eigenvalue	Index	Intercept	export	cement	fish	agriland						
1	4.64739	1.00000	0.00000120	0.00120	0.00040365	0.00137	0.00000134						
2	0.31779	3.82412	0.00000554	0.08957	0.00083453	0.00039284	0.00000798						
3	0.02434	13.81705	0.00005925	0.02695	0.03203	0.97017	0.00006900						
4	0.01046	21.07923	0.00035367	0.02342	0.56958	0.00686	0.00051434						
5	0.00001402	575.71804	0.99958	0.85886	0.39716	0.02122	0.99941						

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source DF		Sum of Squares	Mean Square	F Value	Pr > F		
Model	4	1.126976E13	2.817441E12	202.09	<.0001		
Error	38	5.297732E11	13941401260				
Corrected Total	42	1.179954E13					

Root MSE	118074	R-Square	0.9551	
Dependent Mean	6267232	Adj R-Sq	0.9504	
Coeff Var	1.88398			

	Parameter Estimates										
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation			
Intercept	Intercept	1	6820034	2978196	2.29	0.0277	0	0			
electric	electric	1	206.83867	43.19182	4.79	<.0001	0.77516	22.17581			
cement	cement	1	17.79279	2.27186	7.83	<.0001	0.34454	1.63802			
fish	fish	1	-124.97214	43.77443	-2.85	0.0069	-0.24565	6.26643			
agriland	agriland	1	-868.79668	637.58667	-1.36	0.1810	-0.14469	9.54242			

	Collinearity Diagnostics									
		Condition		Prop	ortion of Vari	ation				
Number	lumber Eigenvalue	Index	Intercept	electric	cement	fish	agriland			
1	4.94474	1.00000	0.0000148	0.00005286	0.00042572	0.00027985	0.00000181			
2	0.03795	11.41441	0.00015322	0.00526	0.00869	0.07992	0.00026145			
3	0.01333	19.26210	0.00020468	0.00746	0.44441	0.07924	0.00045057			
4	0.00396	35.32694	0.00020857	0.18372	0.54298	0.37741	0.00000264			
5	0.00001986	499.02896	0.99943	0.80351	0.00349	0.46315	0.99928			

Number of Observations Read	43
Number of Observations Used	43

	/ariance				
Source DF		Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1.125907E13	2.814768E12	197.91	<.0001
Error	38	5.404665E11	14222803120		
Corrected Total	42	1.179954E13			

Root MSE	119259	R-Square	0.9542	
Dependent Mean	6267232	Adj R-Sq	0.9494	
Coeff Var	1.90290			

	Parameter Estimates										
Variable	riable Label D		Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation			
Intercept	Intercept	1	2653568	182051	14.58	<.0001	0	0			
electric	electric	1	291.06208	36.31713	8.01	<.0001	1.09080	15.36813			
export	export	1	-0.07709	0.07459	-1.03	0.3079	-0.08208	5.23250			
cement	cement	1	16.54727	2.49225	6.64	<.0001	0.32042	1.93223			
fish	fish	1	-189.48346	39.85731	-4.75	<.0001	-0.37246	5.09232			

	Collinearity Diagnostics									
		Condition	Proportion of Variation							
Number	Eigenvalue	Index	Intercept	electric	export	cement	fish			
1	4.68221	1.00000	0.00043804	0.00008557	0.00266	0.00039564	0.00038360			
2	0.28583	4.04733	0.00382	0.00004010	0.21246	0.00192	0.00059276			
3	0.02304	14.25544	0.04317	0.00089995	0.04538	0.09220	0.23740			
4	0.00747	25.03668	0.74134	0.00108	0.05610	0.51035	0.00849			
5	0.00144	56.94305	0.21123	0.99789	0.68340	0.39514	0.75313			

The REG Procedure Model: MODEL1 Dependent Variable: electric electric

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	154939519	51646506	186.79	<.0001		
Error	39	10783558	276501				
Corrected Total	42	165723078					

Root MSE	525.83410	R-Square	0.9349
Dependent Mean	11376	Adj R-Sq	0.9299
Coeff Var	4.62250		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	2471.87657	698.31638	3.54	0.0011	0	0
export	export	1	0.00173	0.00017720	9.76	<.0001	0.49157	1.51896
cement	cement	1	0.04207	0.00868	4.85	<.0001	0.21738	1.20603
fish	fish	1	0.93168	0.09288	10.03	<.0001	0.48867	1.42239

The CORR Procedure

4 Variables: electric export cement fish

Simple Statistics								
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label	
electric	43	11376	1986	489148	7237	13705	electric	
export	43	689265	564317	29638413	51900	2106371	export	
cement	43	76645	10264	3295744	58369	99319	cemen	
fish	43	4815	1042	207066	2946	6078	fish	

Pearson Correlation Coefficients, N = 43 Prob > r under H0: Rho=0							
	electric	export	cement	fish			
electric electric	1.00000	0.83794 <.0001	0.56488 <.0001	0.81902 <.0001			
export export	0.83794 <.0001	1.00000	0.39481 0.0088	0.53318 0.0002			
cement cement	0.56488 <.0001	0.39481 0.0088	1.00000	0.31396 0.0403			
fish fish	0.81902 <.0001	0.53318 0.0002	0.31396 0.0403	1.00000			

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	1.034552E13	3.448506E12	92.50	<.0001		
Error	39	1.454019E12	37282530504				
Corrected Total	42	1.179954E13					

Root MSE	193087	R-Square	0.8768
Dependent Mean	6267232	Adj R-Sq	0.8673
Coeff Var	3.08089		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	3373037	256423	13.15	<.0001	0	0
export	export	1	0.42654	0.06507	6.56	<.0001	0.45412	1.51896
cement	cement	1	28.79245	3.18787	9.03	<.0001	0.55754	1.20603
fish	fish	1	81.69372	34.10512	2.40	0.0215	0.16058	1.42239

	Collinearity Diagnostics							
		Condition	Pro	portion of	Variation	1		
Number	Eigenvalue	Index	Intercept	export	cement	fish		
1	3.68623	1.00000	0.00093013	0.01496	0.00102	0.00221		
2	0.28360	3.60529	0.00586	0.71029	0.00373	0.00288		
3	0.02274	12.73316	0.04649	0.12144	0.13436	0.93996		
4	0.00744	22.26537	0.94672	0.15331	0.86089	0.05495		

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	1.034552E13	3.448506E12	92.50	<.0001		
Error	39	1.454019E12	37282530504				
Corrected Total	42	1.179954E13					

Root MSE	193087	R-Square	0.8768
Dependent Mean	6267232	Adj R-Sq	0.8673
Coeff Var	3.08089		

Parameter Estimates									
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation	
Intercept	Intercept	1	3373037	256423	13.15	<.0001	0	0	
export	export	1	0.42654	0.06507	6.56	<.0001	0.45412	1.51896	
cement	cement	1	28.79245	3.18787	9.03	<.0001	0.55754	1.20603	
fish	fish	1	81.69372	34.10512	2.40	0.0215	0.16058	1.42239	

Collinearity Diagnostics								
		Condition	Proportion of Variation					
Number	Eigenvalue	Index	Intercept	export	cement	fish		
1	3.68623	1.00000	0.00093013	0.01496	0.00102	0.00221		
2	0.28360	3.60529	0.00586	0.71029	0.00373	0.00288		
3	0.02274	12.73316	0.04649	0.12144	0.13436	0.93996		
4	0.00744	22.26537	0.94672	0.15331	0.86089	0.05495		

The REG Procedure Model: MODEL1 Dependent Variable: ghg ghg

	est of First an Moment Spec	
DF	Chi-Square	Pr > ChiSq
9	14.76	0.0978

Durbin-Watson D	0.972
Pr < DW	<.0001
Pr > DW	1.0000
Number of Observations	43
1st Order Autocorrelation	0.407

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance						
Source DF Squares Square F Value Pr >						
Model	3	1.034552E13	3.448506E12	92.50	<.0001	
Error	39	1.454019E12	37282530504			
Corrected Total	42	1.179954E13				

Root MSE	193087	R-Square	0.8768
Dependent Mean	6267232	Adj R-Sq	0.8673
Coeff Var	3.08089		

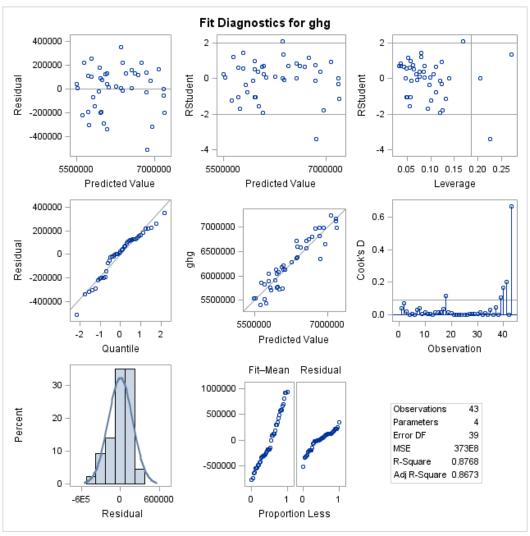
Parameter Estimates									
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation	
Intercept	Intercept	1	3373037	256423	13.15	<.0001	0	0	
export	export	1	0.42654	0.06507	6.56	<.0001	0.45412	1.51896	
cement	cement	1	28.79245	3.18787	9.03	<.0001	0.55754	1.20603	
fish	fish	1	81.69372	34.10512	2.40	0.0215	0.16058	1.42239	

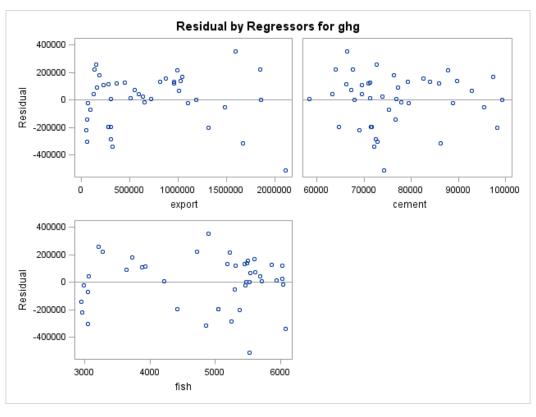
Collinearity Diagnostics								
		Condition	Proportion of Variation					
Number	Eigenvalue	Index	Intercept	export	cement	fish		
1	3.68623	1.00000	0.00093013	0.01496	0.00102	0.00221		
2	0.28360	3.60529	0.00586	0.71029	0.00373	0.00288		
3	0.02274	12.73316	0.04649	0.12144	0.13436	0.93996		
4	0.00744	22.26537	0.94672	0.15331	0.86089	0.05495		

The REG Procedure Model: MODEL1 Dependent Variable: ghg ghg

	est of First an Moment Spec	
DF	Chi-Square	Pr > ChiSq
9	14.76	0.0978

Durbin-Watson D	0.972
Pr < DW	<.0001
Pr > DW	1.0000
Number of Observations	43
1st Order Autocorrelation	0.407





Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	1.034552E13	3.448506E12	92.50	<.0001		
Error	39	1.454019E12	37282530504				
Corrected Total	42	1.179954E13					

Root MSE	193087	R-Square	0.8768
Dependent Mean	6267232	Adj R-Sq	0.8673
Coeff Var	3.08089		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	3373037	256423	13.15	<.0001	0	0
export	export	1	0.42654	0.06507	6.56	<.0001	0.45412	1.51896
cement	cement	1	28.79245	3.18787	9.03	<.0001	0.55754	1.20603
fish	fish	1	81.69372	34.10512	2.40	0.0215	0.16058	1.42239

Collinearity Diagnostics								
	Condition Proportion of Variation					1		
Number	Eigenvalue	Index	Intercept	export	cement	fish		
1	3.68623	1.00000	0.00093013	0.01496	0.00102	0.00221		
2	0.28360	3.60529	0.00586	0.71029	0.00373	0.00288		
3	0.02274	12.73316	0.04649	0.12144	0.13436	0.93996		
4	0.00744	22.26537	0.94672	0.15331	0.86089	0.05495		

The REG Procedure Model: MODEL1 Dependent Variable: ghg ghg

Durbin-Watson D	0.972
Pr < DW	<.0001
Pr > DW	1.0000
Number of Observations	43
1st Order Autocorrelation	0.407

Number of Observations Read	43
Number of Observations Used	43

Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	1.034552E13	3.448506E12	92.50	<.0001		
Error	39	1.454019E12	37282530504				
Corrected Total	42	1.179954E13					

Root MSE	193087	R-Square	0.8768
Dependent Mean	6267232	Adj R-Sq	0.8673
Coeff Var	3.08089		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Variance Inflation
Intercept	Intercept	1	3373037	256423	13.15	<.0001	0	0
export	export	1	0.42654	0.06507	6.56	<.0001	0.45412	1.51896
cement	cement	1	28.79245	3.18787	9.03	<.0001	0.55754	1.20603
fish	fish	1	81.69372	34.10512	2.40	0.0215	0.16058	1.42239

Collinearity Diagnostics								
	Condition Proportion of Variation					1		
Number	Eigenvalue	Index	Intercept	export	cement	fish		
1	3.68623	1.00000	0.00093013	0.01496	0.00102	0.00221		
2	0.28360	3.60529	0.00586	0.71029	0.00373	0.00288		
3	0.02274	12.73316	0.04649	0.12144	0.13436	0.93996		
4	0.00744	22.26537	0.94672	0.15331	0.86089	0.05495		

The REG Procedure Model: MODEL1 Dependent Variable: ghg ghg

Durbin-Watson D	0.972
Pr < DW	<.0001
Pr > DW	1.0000
Number of Observations	43
1st Order Autocorrelation	0.407

First Round Estimate of Rho

The REG Procedure Model: MODEL1 Dependent Variable: resid Residual

Number of Observations Read	43
Number of Observations Used	42
Number of Observations with Missing Values	1

Note: No intercept in model. R-Square is redefined.

Analysis of Variance						
Source	DF Squa		Mean Square	F Value	Pr > F	
Model	1	2.936071E11	2.936071E11	10.83	0.0021	
Error	41	1.11118E12	27101960776			
Uncorrected Total	42	1.404788E12				

Root MSE	164627	R-Square	0.2090
Dependent Mean	5282.88093	Adj R-Sq	0.1897
Coeff Var	3116.23021		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate		t Value	Pr > t	
residl		1	0.49669	0.15090	3.29	0.0021	

First Round WLS Estimates

Number of Observations Read	43
Number of Observations Used	42
Number of Observations with Missing Values	1

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.220846E12	7.402819E11	26.78	<.0001
Error	38	1.050381E12	27641602669		
Corrected Total	41	3.271227E12			

Root MSE	166258	R-Square	0.6789
Dependent Mean	3175903	Adj R-Sq	0.6536
Coeff Var	5.23497		

	Parameter Estimates										
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Standardized Estimate	Tolerance	Variance Inflation			
Intercept	1	1903708	184401	10.32	<.0001	0		0			
export2	1	0.36245	0.09528	3.80	0.0005	0.39279	0.79263	1.26162			
cement2	1	25.38408	4.20443	6.04	<.0001	0.57935	0.91767	1.08972			
fish2	1	61.28627	56.18205	1.09	0.2822	0.11358	0.77950	1.28288			

Collinearity Diagnostics (intercept adjusted)							
		Condition Proportion of Variation					
Number	Eigenvalue			cement2	fish2		
1	1.62735	1.00000	0.18317	0.12956	0.18881		
2	0.81470	1.41332	0.15110	0.86142	0.07647		
3	0.55795	1.70782	0.66573	0.00902	0.73472		

First Round WLS Estimates

The REG Procedure Model: MODEL1 Dependent Variable: ghg2

Durbin-Watson D	1.560
Pr < DW	0.0292
Pr > DW	0.9708
Number of Observations	42
1st Order Autocorrelation	0.097

The REG Procedure Model: MODEL1 Dependent Variable: resid2 Residual

Number of Observations Read	43
Number of Observations Used	42
Number of Observations with Missing Values	1

Note: No intercept in model. R-Square is redefined.

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.303055E11	5.303055E11	20.99	<.0001
Error	41	1.035913E12	25266163737		
Uncorrected Total	42	1.566218E12			

Root MSE	158953	R-Square	0.3386	
Dependent Mean	2120.70652	Adj R-Sq	0.3225	
Coeff Var	7495.30104			

Variable	Variable Label		Parameter Estimate		t Value	Pr > t
resid2l		1	0.59496	0.12987	4.58	<.0001

Number of Observations Read	43
Number of Observations Used	42
Number of Observations with Missing Values	1

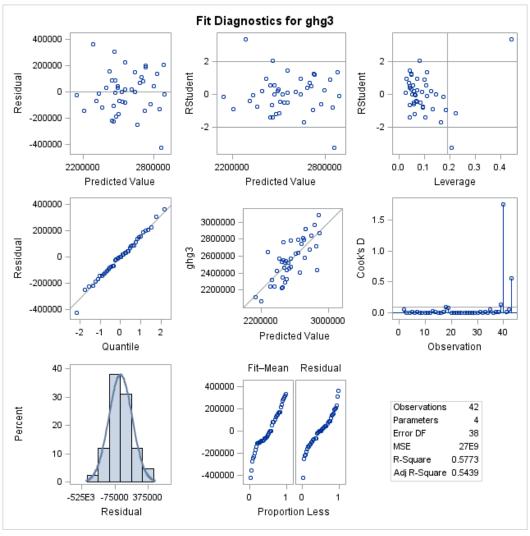
Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	1.400308E12	4.667692E11	17.30	<.0001		
Error 38		1.025291E12	26981340699				
Corrected Total	41	2.425599E12					

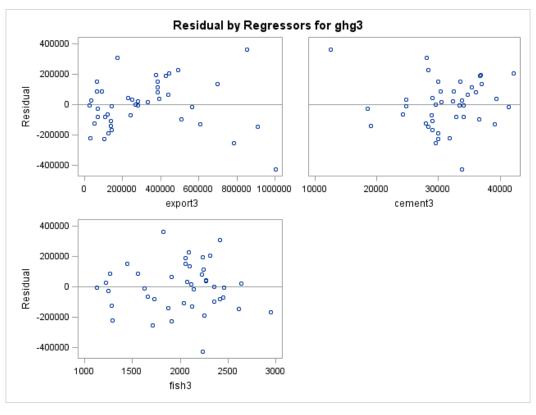
Root MSE	164260	R-Square	0.5773	
Dependent Mean	2560201	Adj R-Sq	0.5439	
Coeff Var	6.41590			

Parameter Estimates								
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t			
Intercept	1	1611196	164693	9.78	<.0001			
export3	1	0.32798	0.10906	3.01	0.0047			
cement3	1	23.74982	4.48351	5.30	<.0001			
fish3	1	52.41416	65.54892	0.80	0.4289			

The REG Procedure Model: MODEL1 Dependent Variable: ghg3

Durbin-Watson D	1.677
Pr < DW	0.0712
Pr > DW	0.9288
Number of Observations	42
1st Order Autocorrelation	0.050





R for final model

The CORR Procedure

2 Variables: ghg ghghat

Simple Statistics								
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label	
ghg	43	6267232	530039	269490995	5400504	7244272	ghg	
ghghat	43	6276644	389128	269895671	5682248	7020535		

Pearson Correlation Coefficients, N = 43						
Prob > r under H0: Rho=0						
	ghg	ghghat				
ghg ghg	1.00000	0.93566 <.0001				
ghghat	0.93566 <.0001	1.00000				

The AUTOREG Procedure

Dependent Variable	ghg
	ghg

The AUTOREG Procedure

Ordinary Least Squares Estimates						
SSE	1.45402E12	DFE	39			
MSE	3.72825E10	Root MSE	193087			
SBC	1179.57206	AIC	1172.52726			
MAE	144674.397	AICC	1173.57989			
MAPE	2.34207422	HQC	1175.12516			
Durbin-Watson	0.9716	Regress R-Square	0.8768			
		Total R-Square	0.8768			

Parameter Estimates							
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t	Variable Label	
Intercept	1	3373037	256423	13.15	<.0001		
export	1	0.4265	0.0651	6.56	<.0001	export	
cement	1	28.7924	3.1879	9.03	<.0001	cement	
fish	1	81.6937	34.1051	2.40	0.0215	fish	

Estimates of Autocorrelations																							
Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
0	3.381E10	1.000000	1										1:	* * *	* * *	**:	* * *	***	**	***	* * :	* * *	**
1	1.375E10	0.406550	П										1	**	**	k * :	* *						

Preliminary MSE 2.823E10

Estimates of Autoregressive Parameters							
Lag	Coefficient	Standard Error	t Value				
1	-0.406550	0.148210	-2.74				

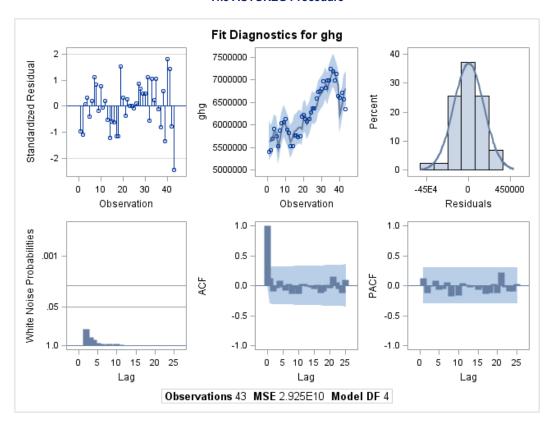
Algorithm converged.

The AUTOREG Procedure

Yule-Walker Estimates							
SSE	1.11148E12	DFE	38				
MSE	2.92494E10	Root MSE	171025				
SBC	1172.07088	AIC	1163.26488				
MAE	126356.571	AICC	1164.8865				
MAPE	2.0213429	HQC	1166.51226				
Durbin-Watson	1.4888	Regress R-Square	0.7080				
		Total R-Square	0.9058				

Parameter Estimates								
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t	Variable Label		
Intercept	1	3606443	357406	10.09	<.0001			
export	1	0.3730	0.0983	3.80	0.0005	export		
cement	1	25.4628	4.3396	5.87	<.0001	cement		
fish	1	90.5568	54.5753	1.66	0.1053	fish		

The AUTOREG Procedure



R for PROC AUTOREG final model

The CORR Procedure

2 Variables: ghg ghghat2

Simple Statistics								
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label	
ghg	43	6267232	530039	269490995	5400504	7244272	ghg	
ghghat2	43	6251215	449006	268802258	5541804	7081354		

Pearson Correlation Coefficients, N = 43							
Prob > r under H0: Rho=0							
	ghg	ghghat2					
ghg ghg	1.00000	0.93584 <.0001					
ghghat2	0.93584 <.0001	1.00000					