

The CONTENTS Procedure

Data Set Name	WORK.COVID	Observations	62
Member Type	DATA	Variables	24
Engine	V9	Indexes	0
Created	04/22/2020 22:51:36	Observation Length	208
Last Modified	04/22/2020 22:51:36	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

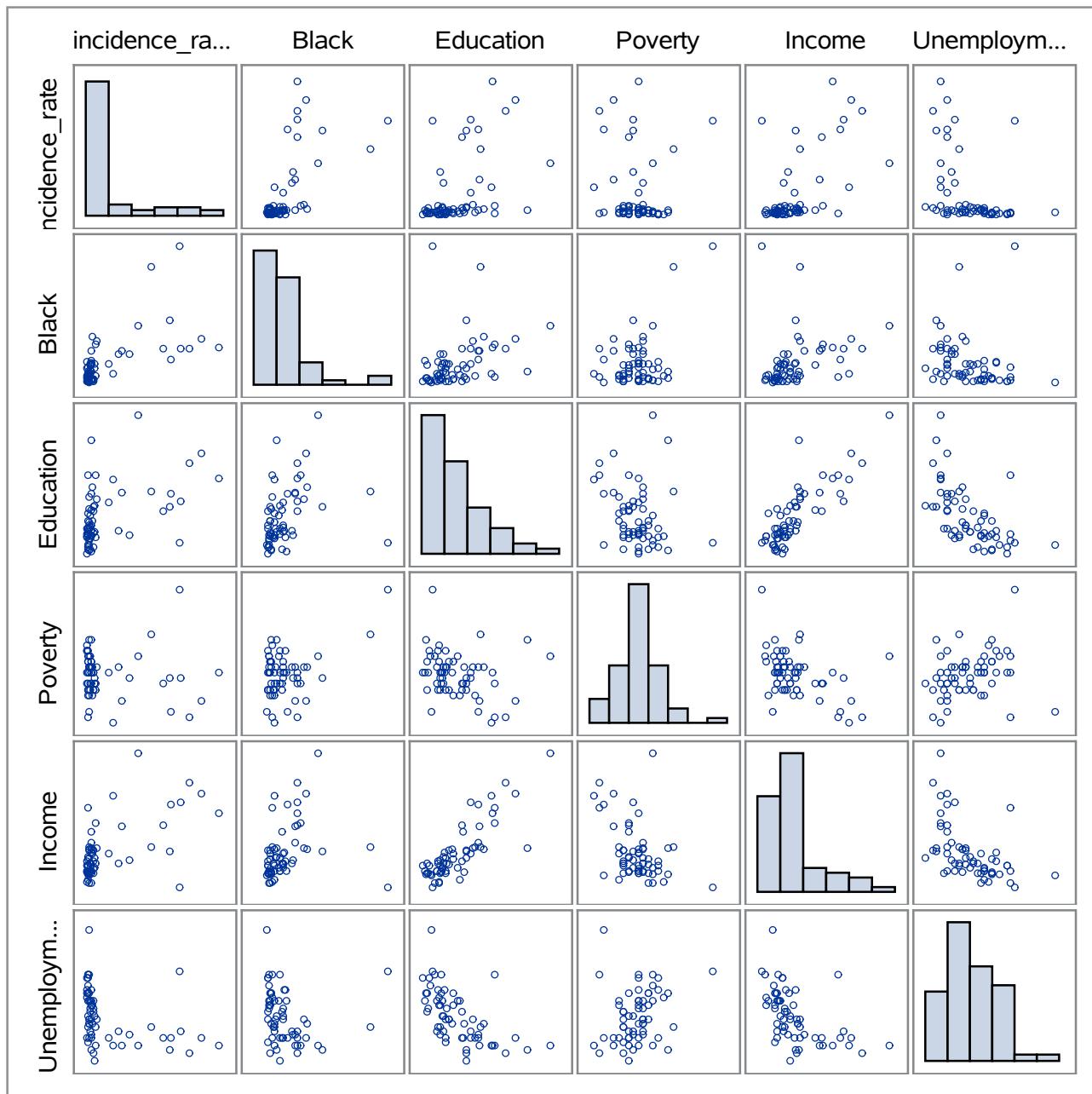
Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	629
Obs in First Data Page	62
Number of Data Set Repairs	0
Filename	/saswork/SAS_work608A00003F9E_odaws03-usw2.oda.sas.com/SAS_workB62E00003F9E_odaws03-usw2.oda.sas.com/covid.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	889178
Access Permission	rw-r--r--
Owner Name	u45096072
File Size	256KB
File Size (bytes)	262144

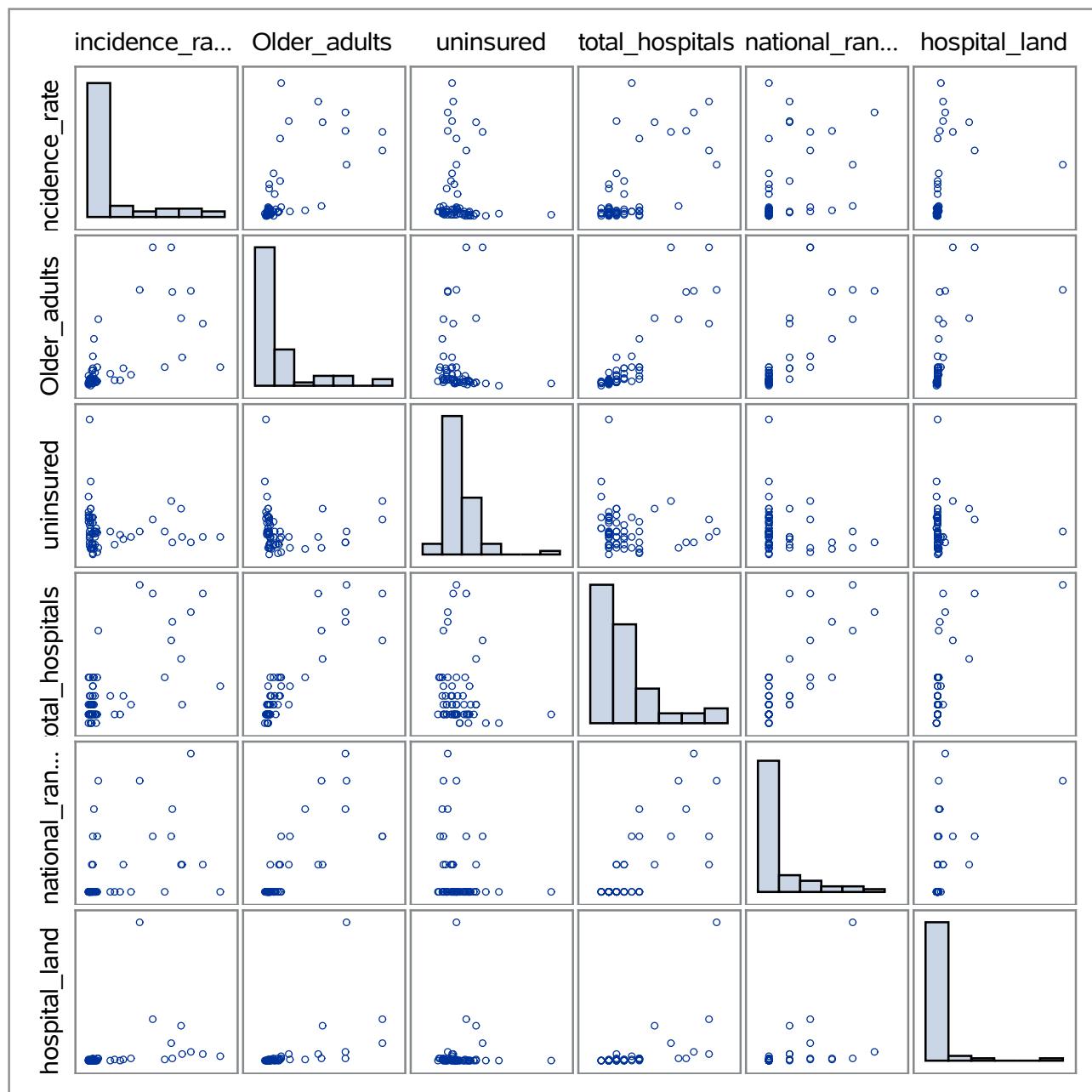
Alphabetic List of Variables and Attributes

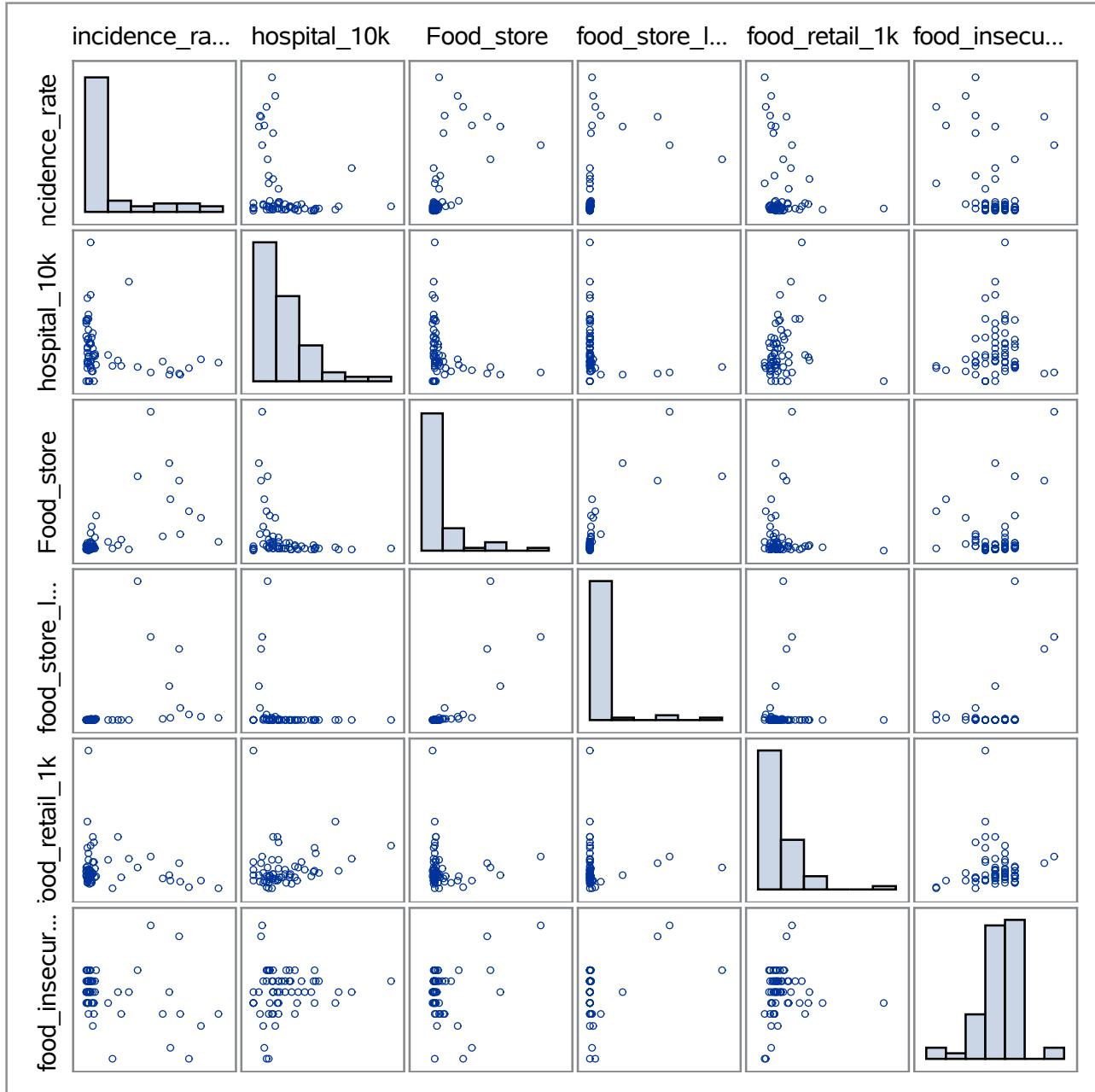
#	Variable	Type	Len	Format	Informat
5	Black	Num	8	BEST12.	BEST32.
1	County	Char	18	\$18.	\$18.
21	Diabetes_prev	Num	8	BEST12.	BEST32.
6	Education	Num	8	BEST12.	BEST32.
16	Food_store	Num	8	BEST12.	BEST32.
20	Google_trend	Num	8	BEST12.	BEST32.
22	Hypertension_prev	Num	8	BEST12.	BEST32.

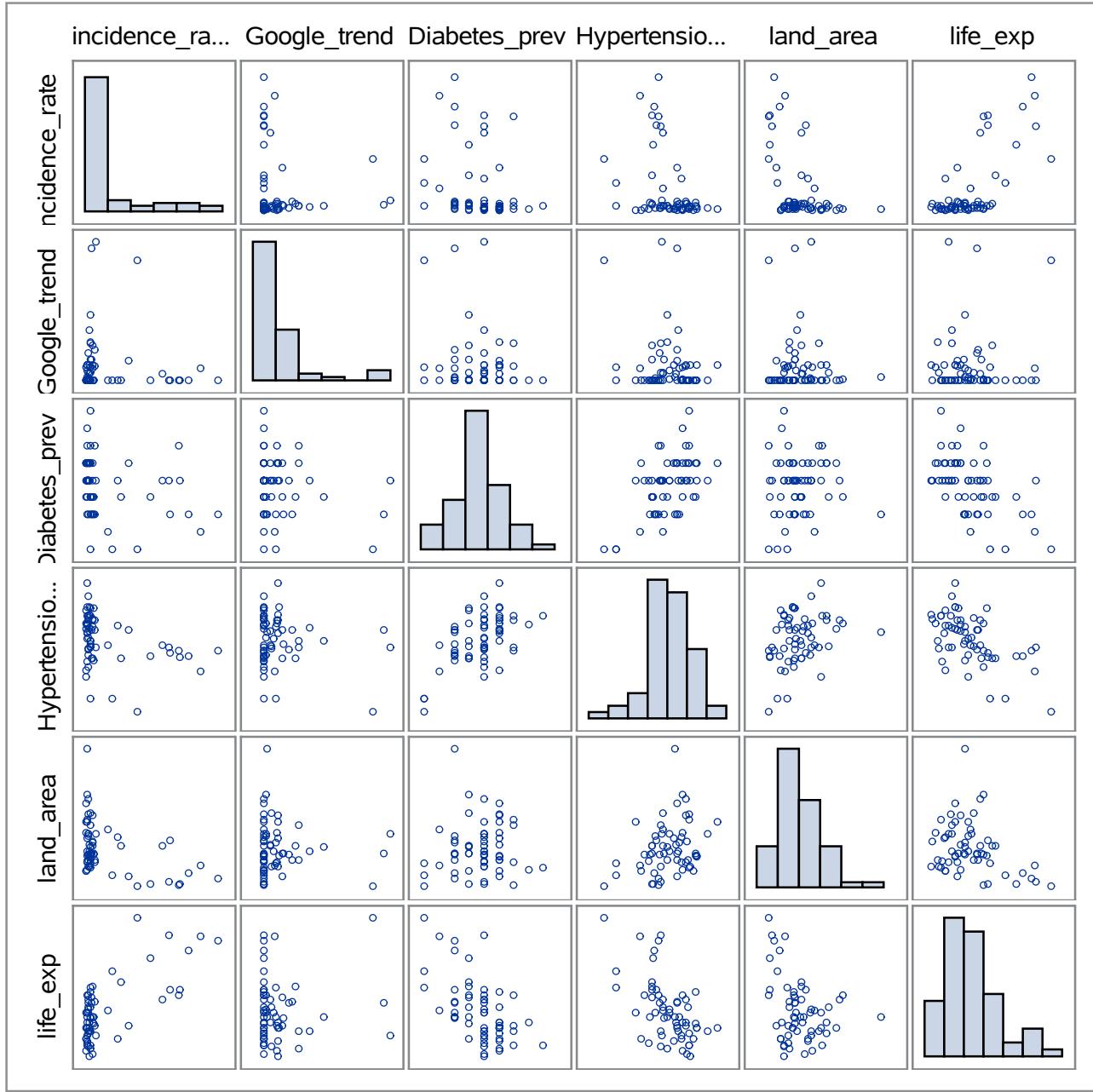
The CONTENTS Procedure

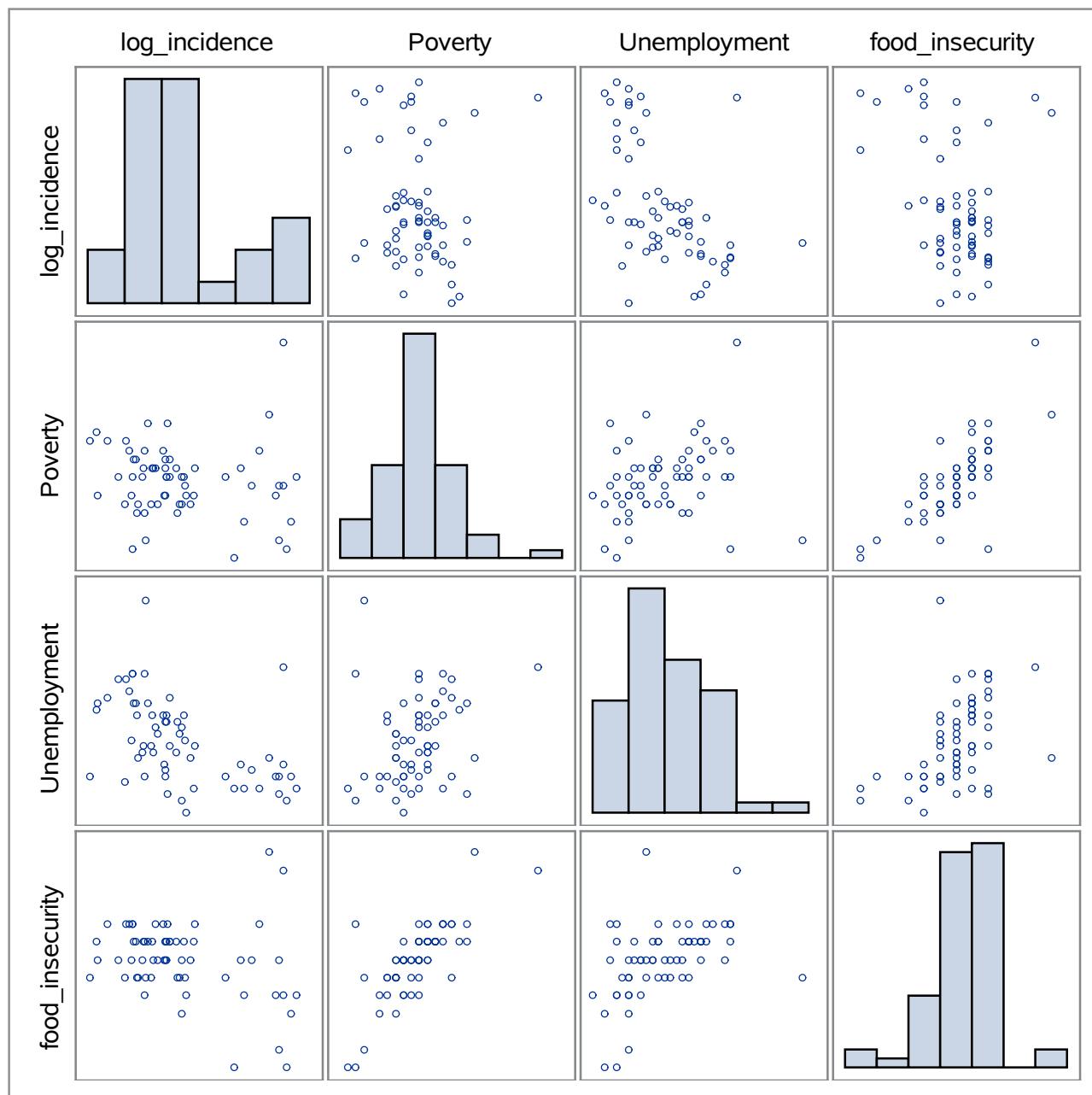
Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
8	Income	Num	8	BEST12.	BEST32.
10	Older_adults	Num	8	BEST12.	BEST32.
7	Poverty	Num	8	BEST12.	BEST32.
9	Unemployment	Num	8	BEST12.	BEST32.
3	fatality_rate	Num	8	BEST12.	BEST32.
19	food_insecurity	Num	8	BEST12.	BEST32.
18	food_retail_1k	Num	8	BEST12.	BEST32.
17	food_store_land	Num	8	BEST12.	BEST32.
15	hospital_10k	Num	8	BEST12.	BEST32.
14	hospital_land	Num	8	BEST12.	BEST32.
2	incidence_rate	Num	8	BEST12.	BEST32.
23	land_area	Num	8	BEST12.	BEST32.
24	life_exp	Num	8	BEST12.	BEST32.
13	national_rankings	Num	8	BEST12.	BEST32.
4	population	Num	8	BEST12.	BEST32.
12	total_hospitals	Num	8	BEST12.	BEST32.
11	uninsured	Num	8	BEST12.	BEST32.

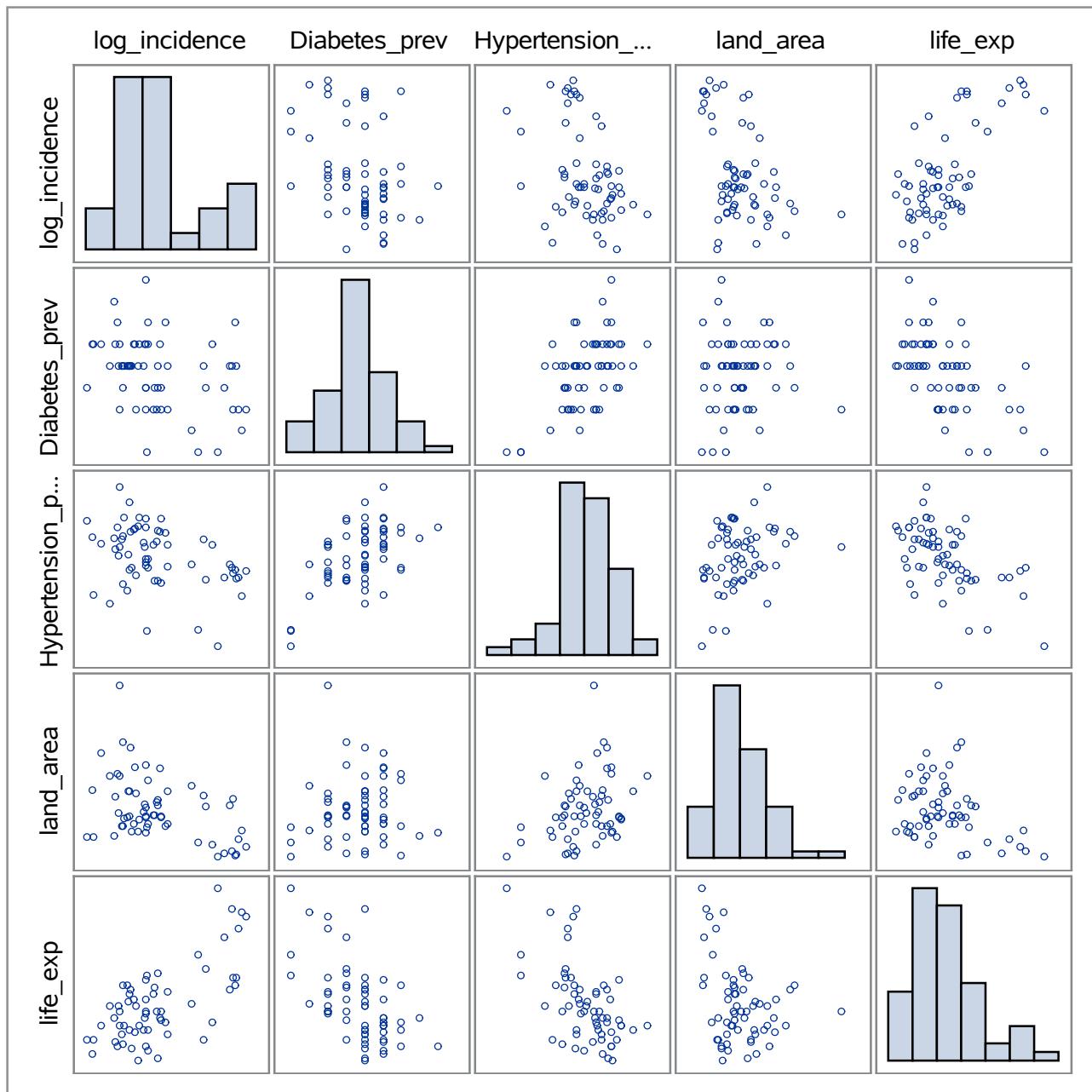


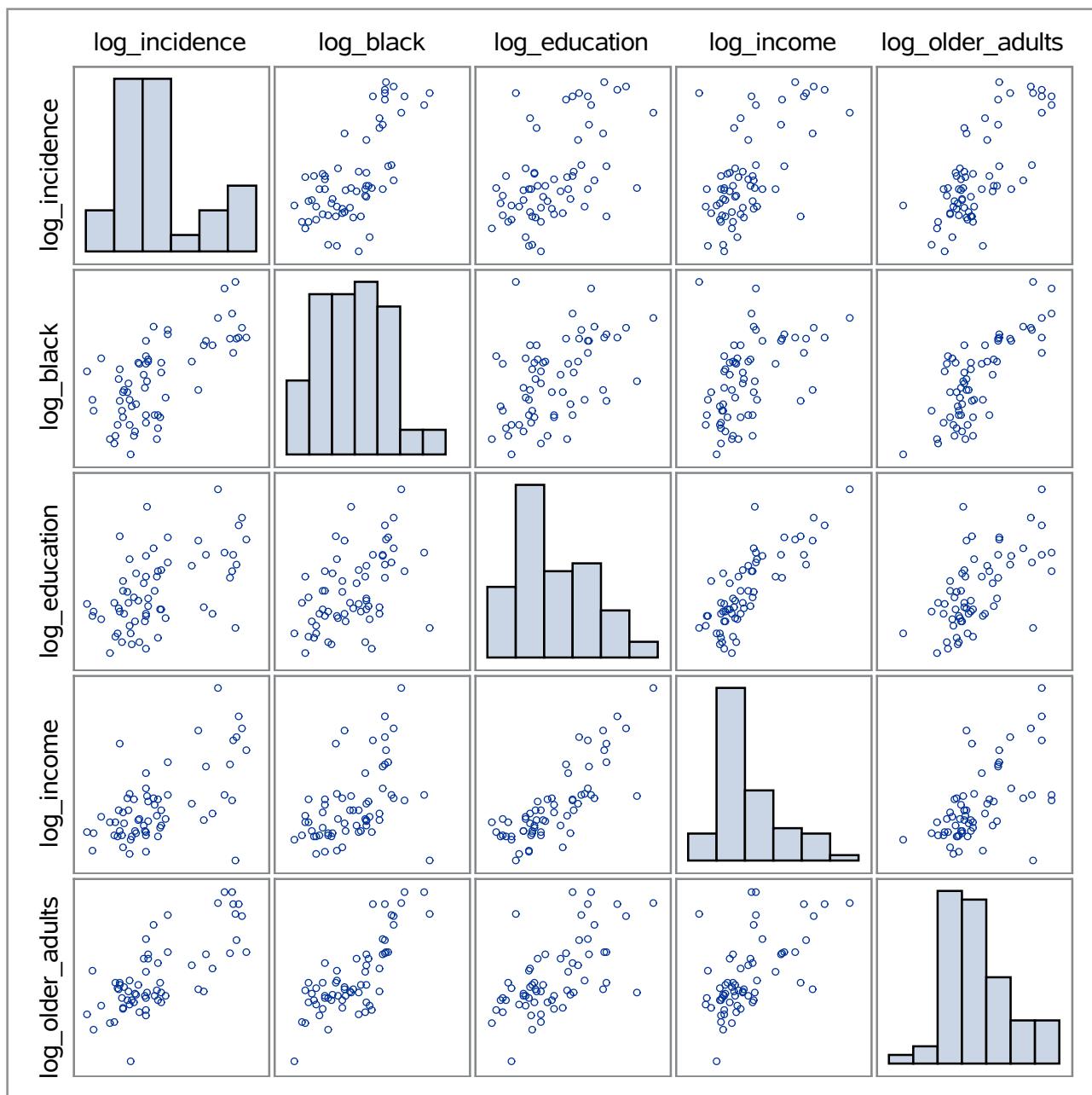


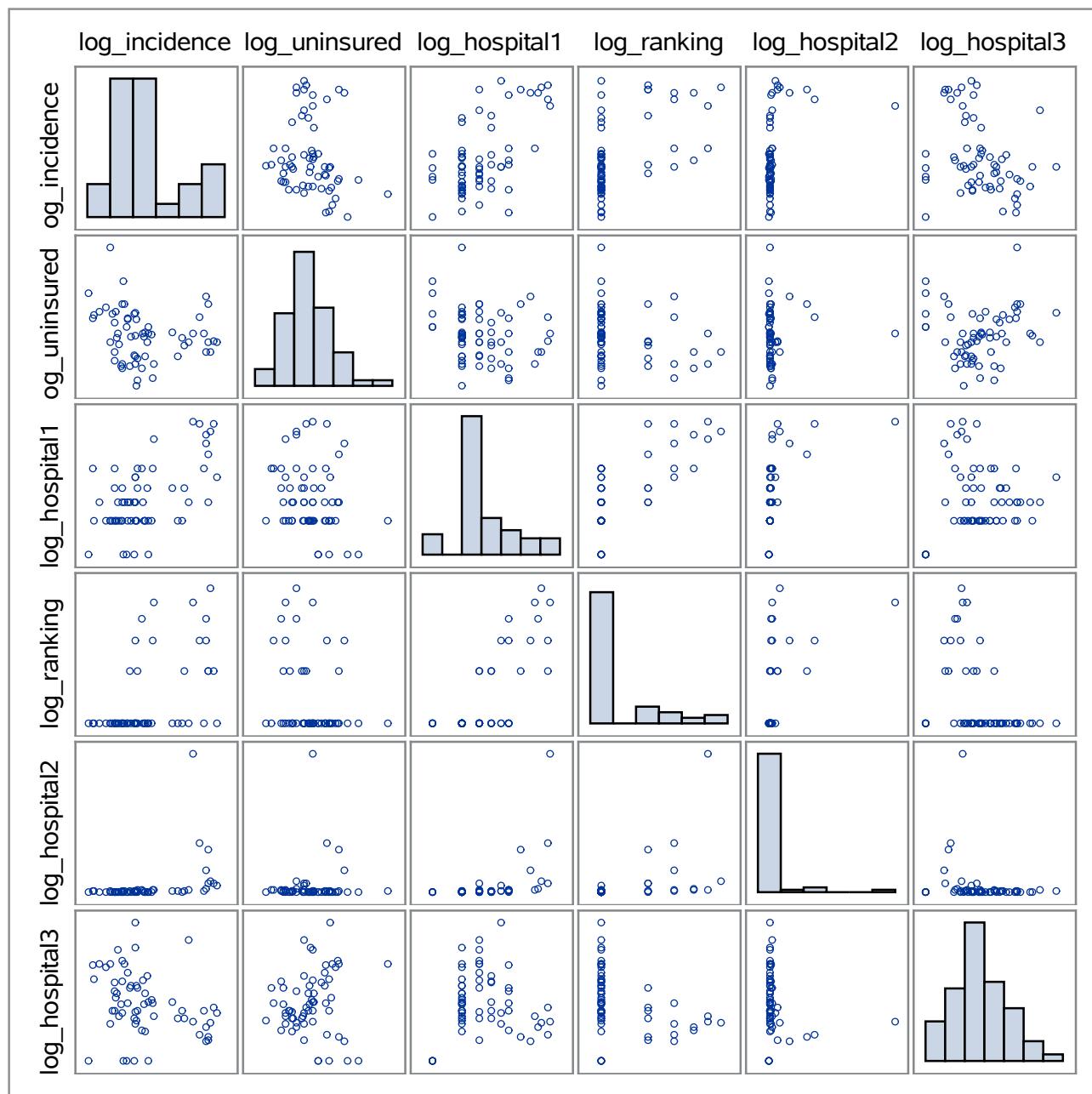


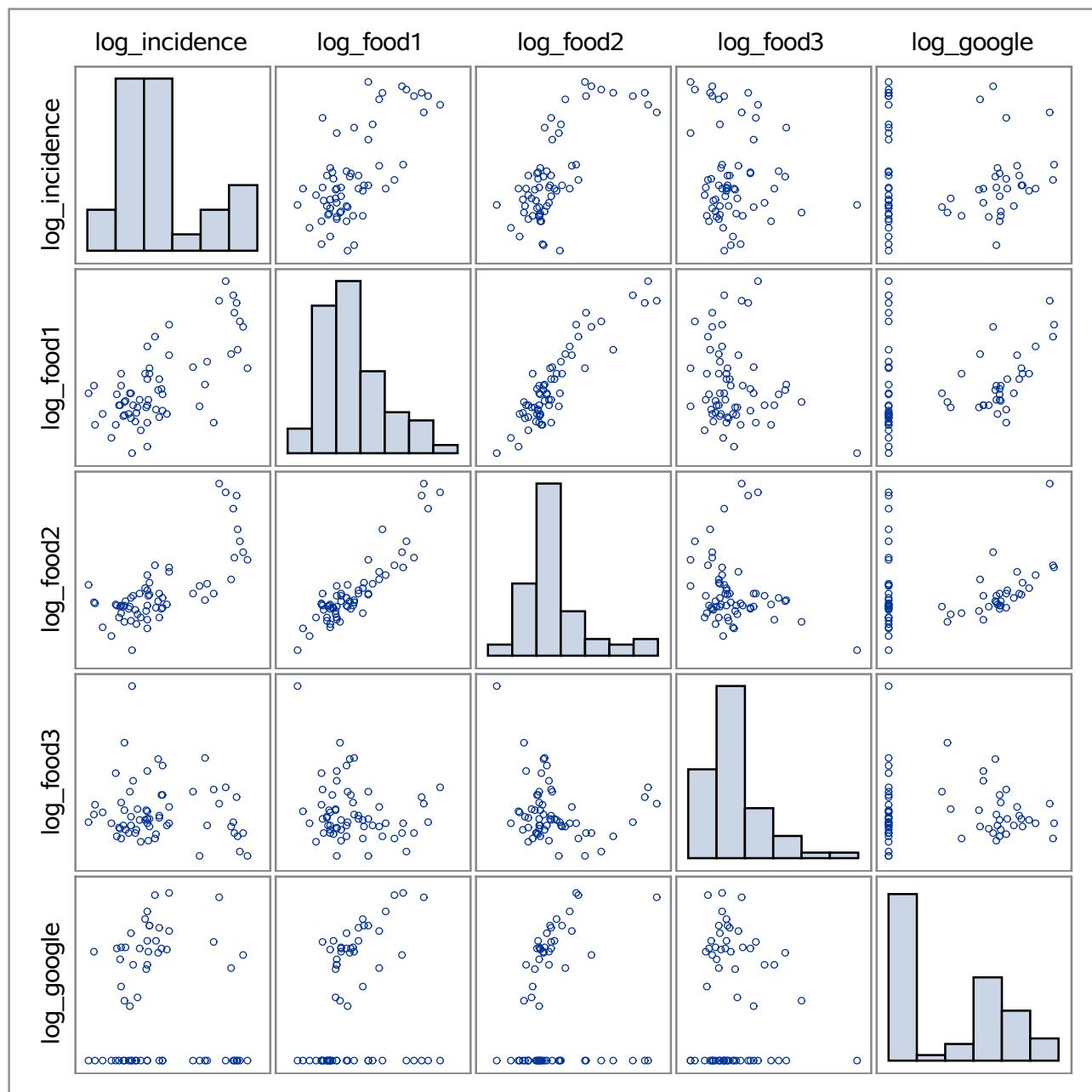












The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

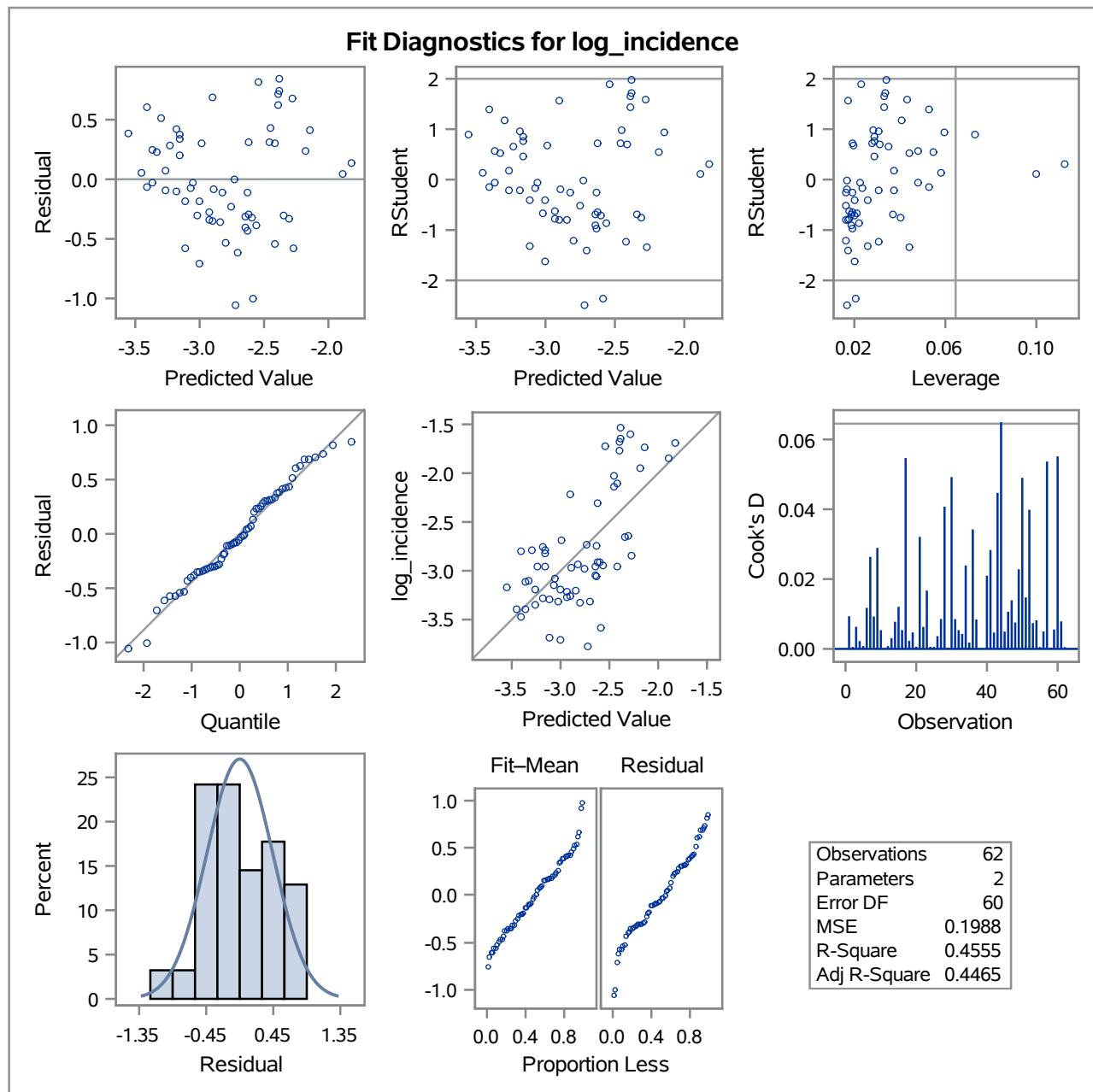
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9.98221	9.98221	50.20	<.0001
Error	60	11.93025	0.19884		
Corrected Total	61	21.91246			

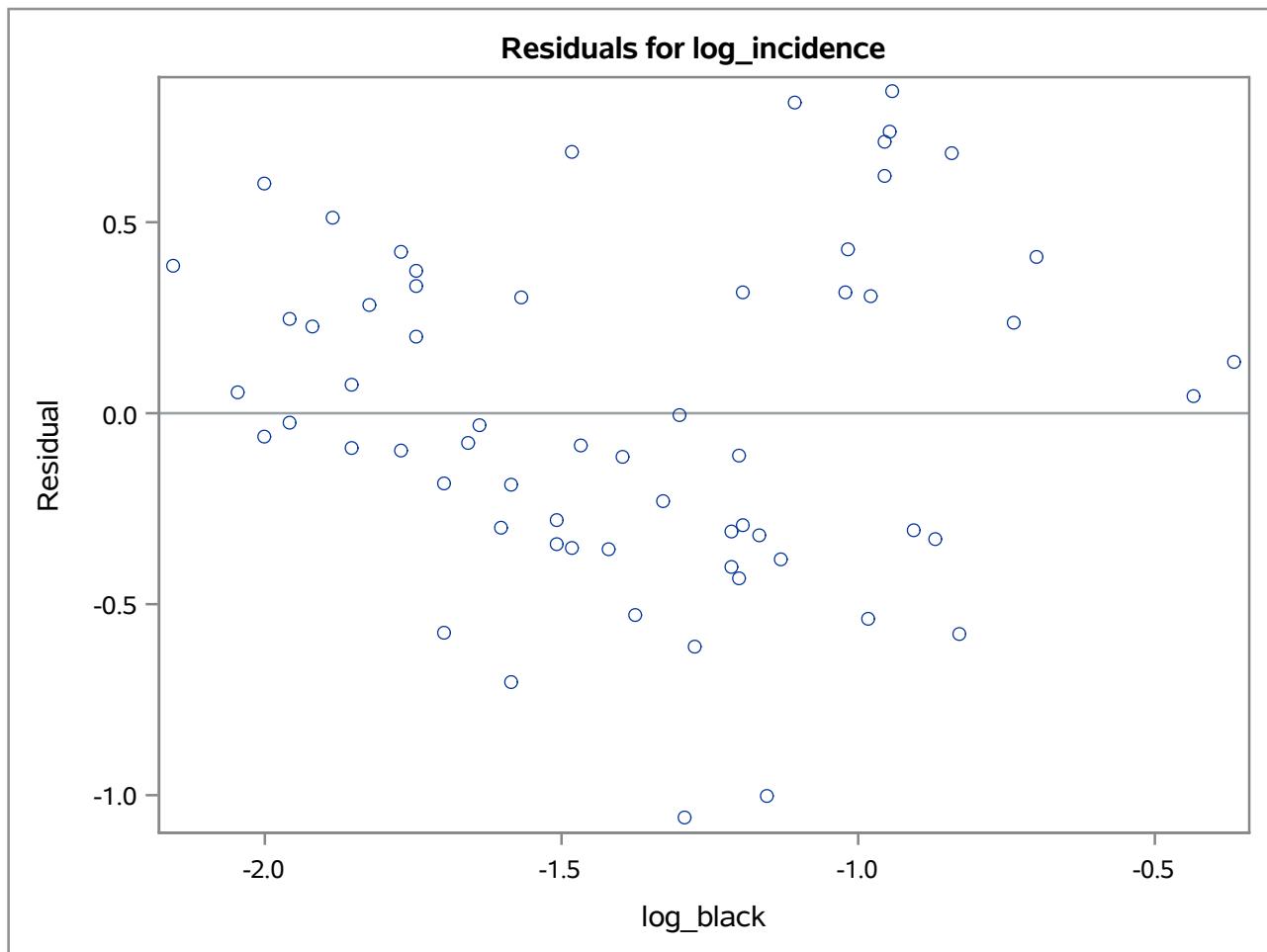
Root MSE	0.44591	R-Square	0.4555
Dependent Mean	-2.80151	Adj R-Sq	0.4465
Coeff Var	-15.91682		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.46513	0.19693	-7.44	<.0001
log_black	1	0.97053	0.13698	7.09	<.0001

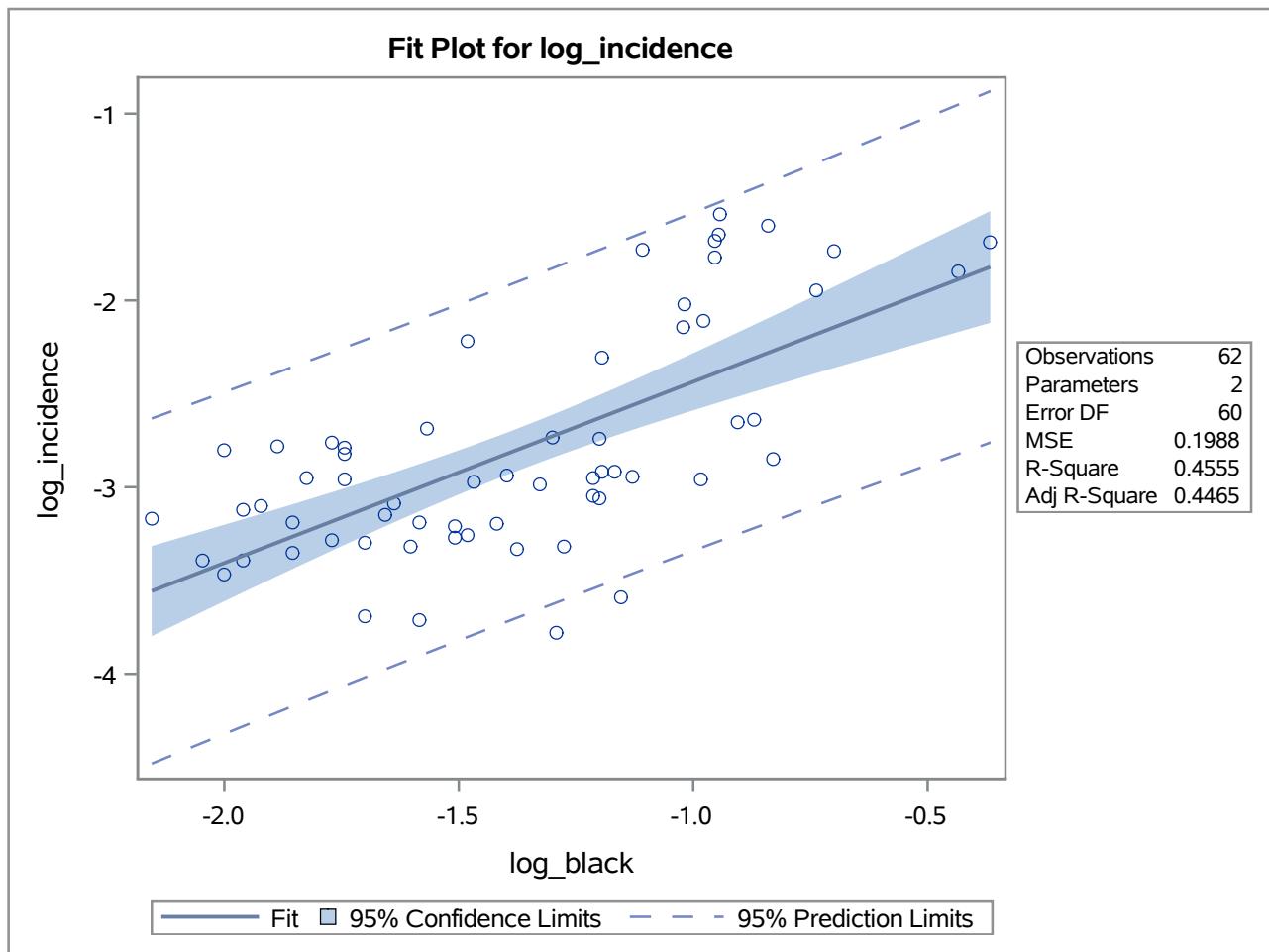
The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence

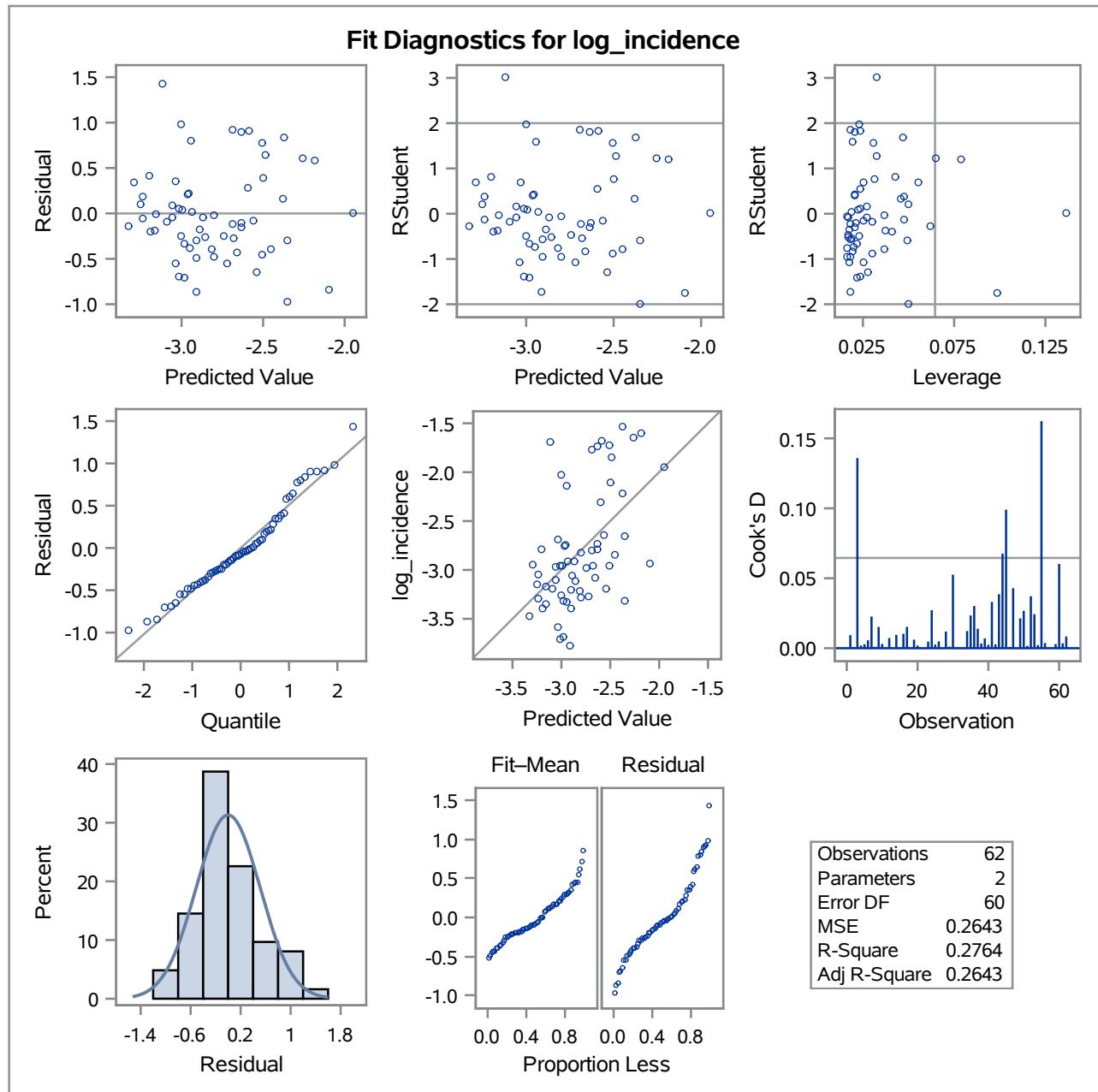
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.05677	6.05677	22.92	<.0001
Error	60	15.85569	0.26426		
Corrected Total	61	21.91246			

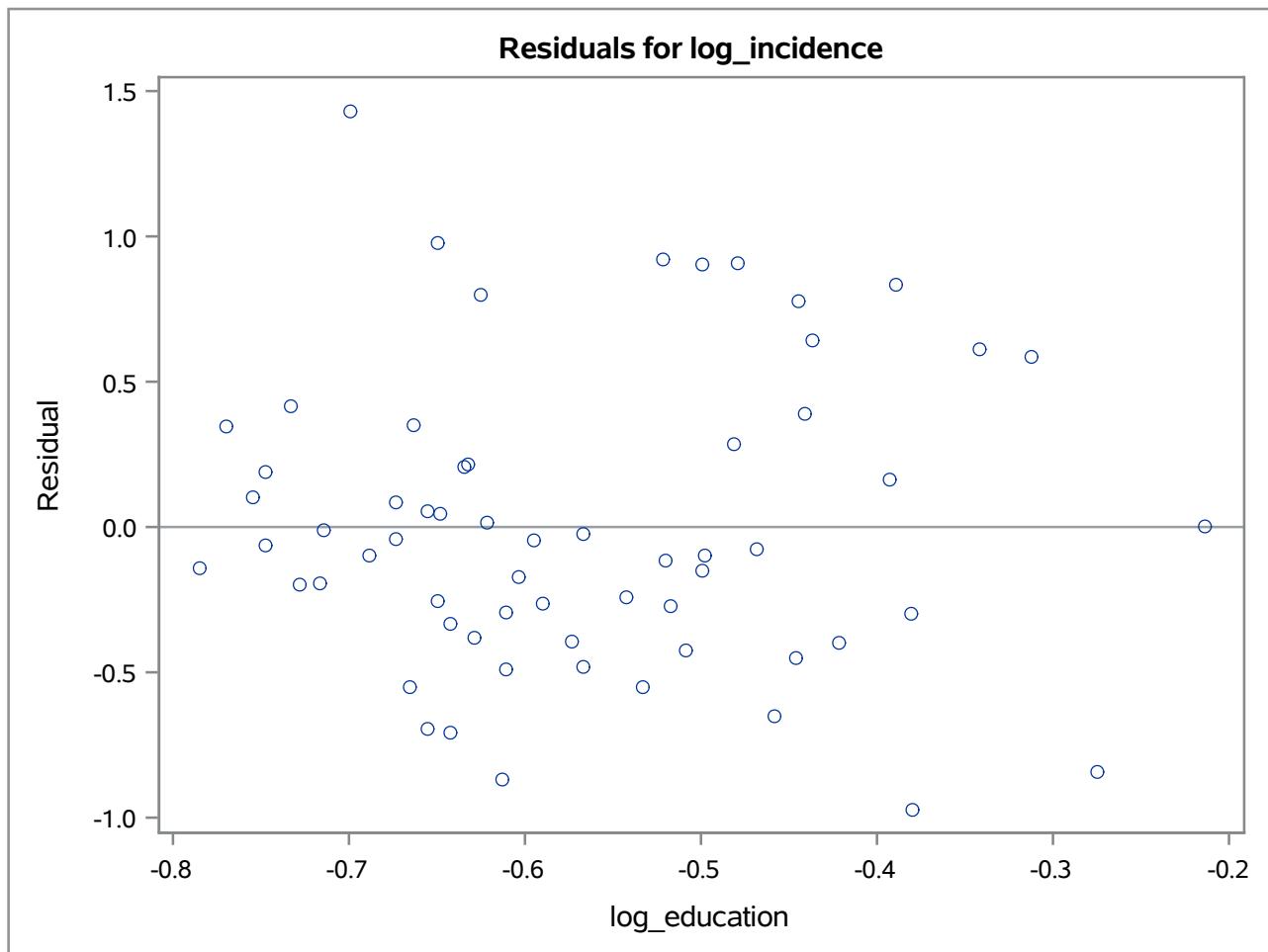
Root MSE	0.51406	R-Square	0.2764
Dependent Mean	-2.80151	Adj R-Sq	0.2643
Coeff Var	-18.34949		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.43117	0.29359	-4.87	<.0001
log_education	1	2.41525	0.50450	4.79	<.0001

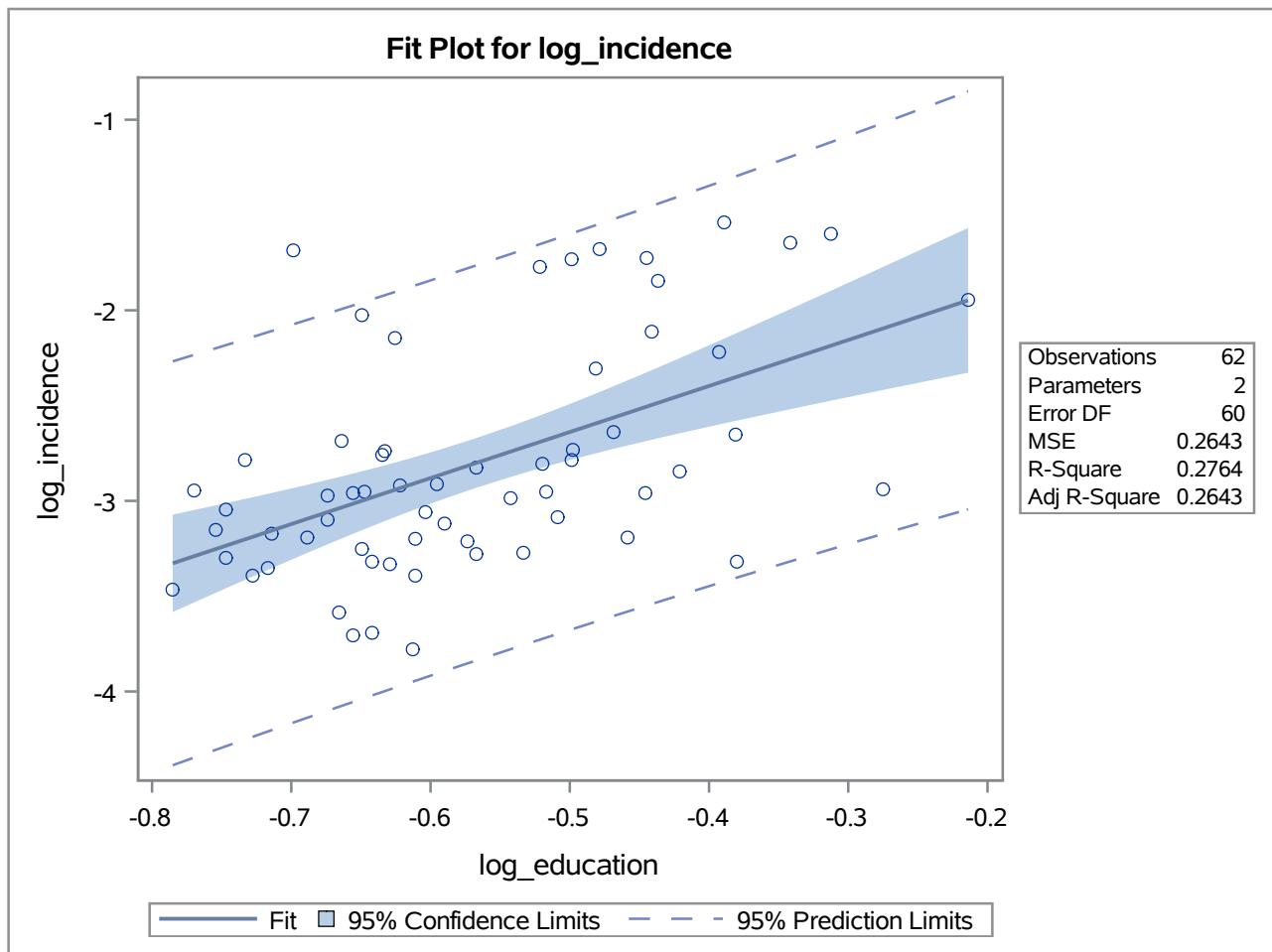
The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence

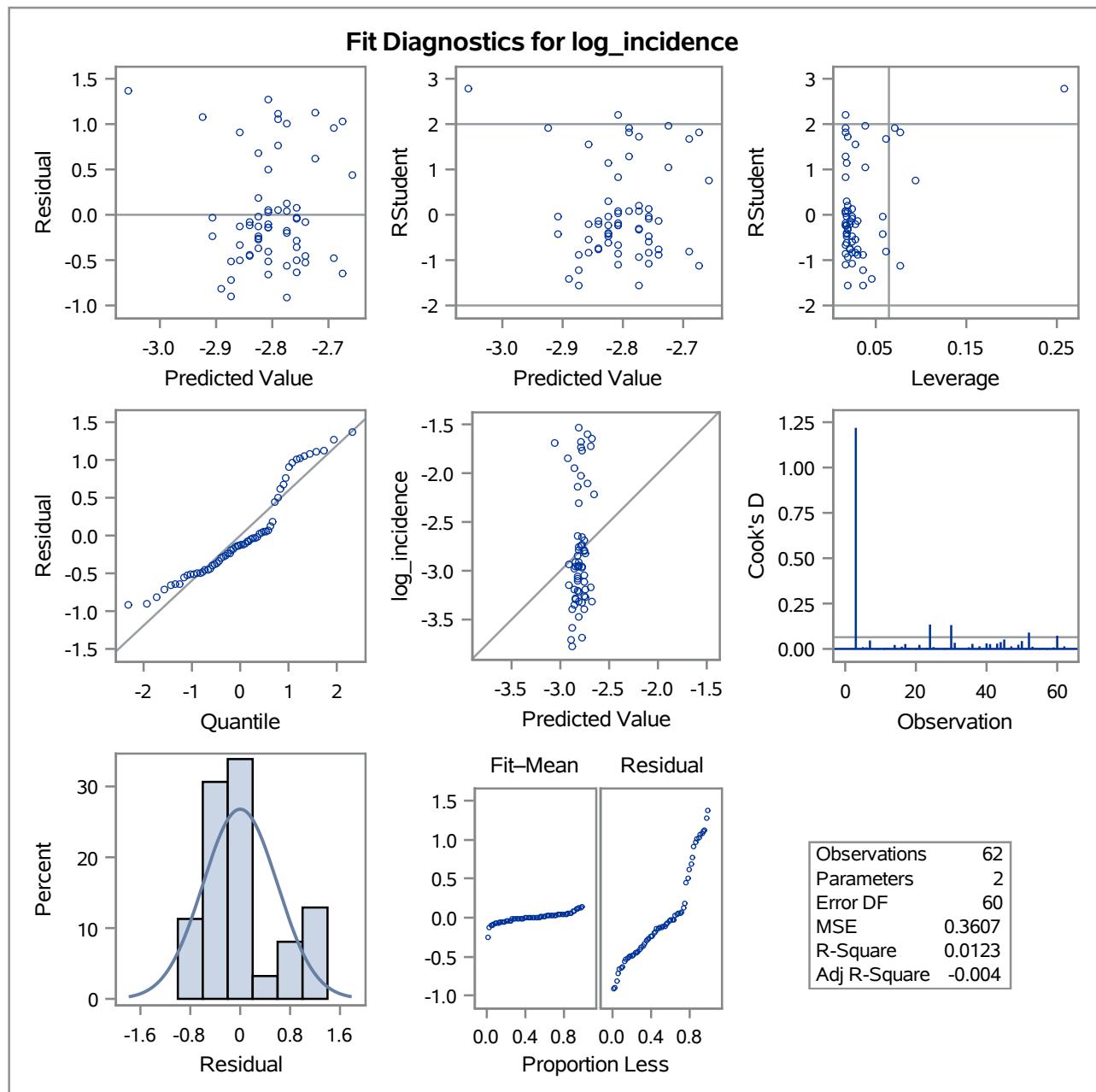
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.26948	0.26948	0.75	0.3908
Error	60	21.64298	0.36072		
Corrected Total	61	21.91246			

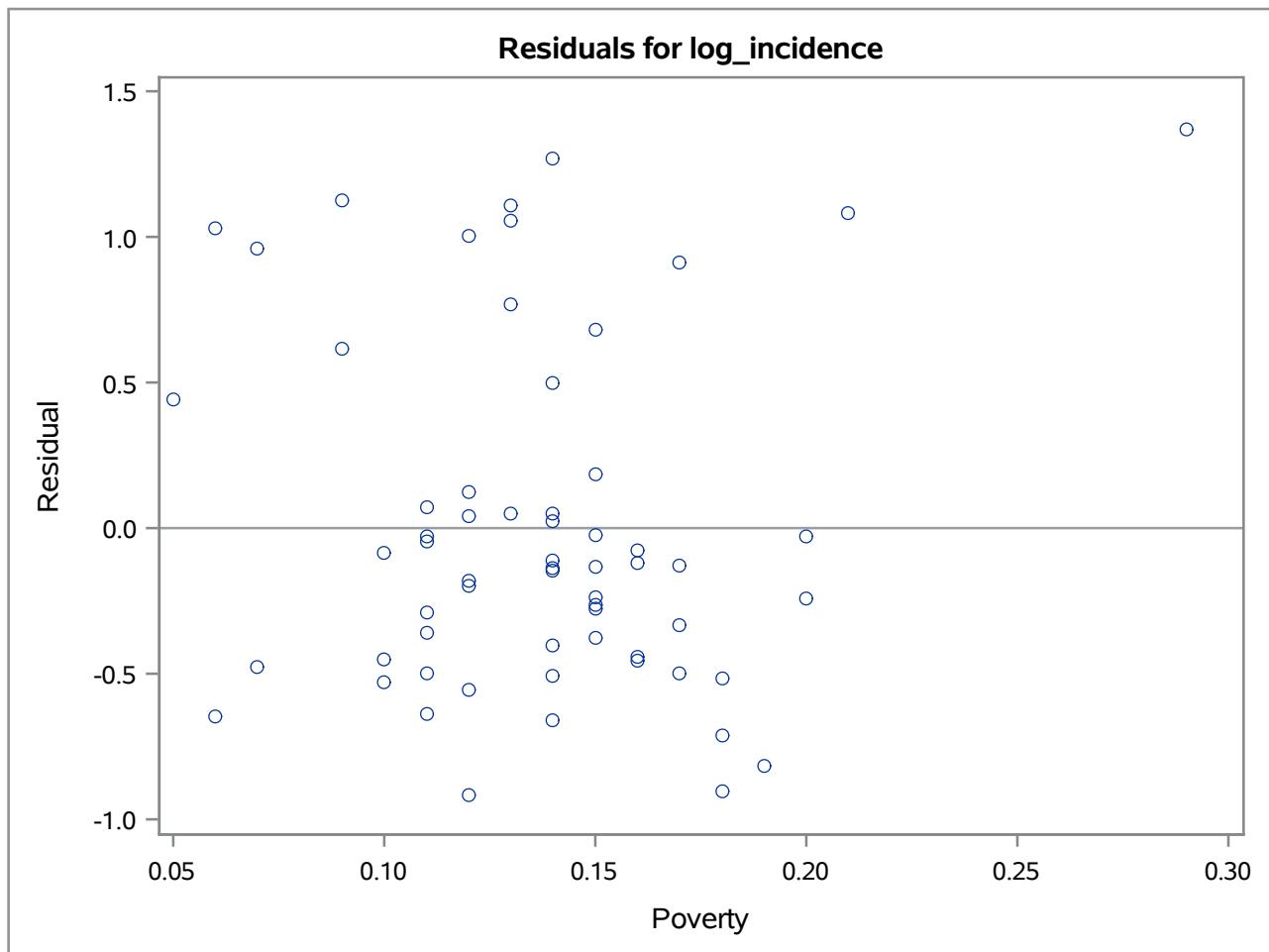
Root MSE	0.60060	R-Square	0.0123
Dependent Mean	-2.80151	Adj R-Sq	-0.0042
Coeff Var	-21.43828		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.57403	0.27402	-9.39	<.0001
Poverty	1	-1.66516	1.92653	-0.86	0.3908

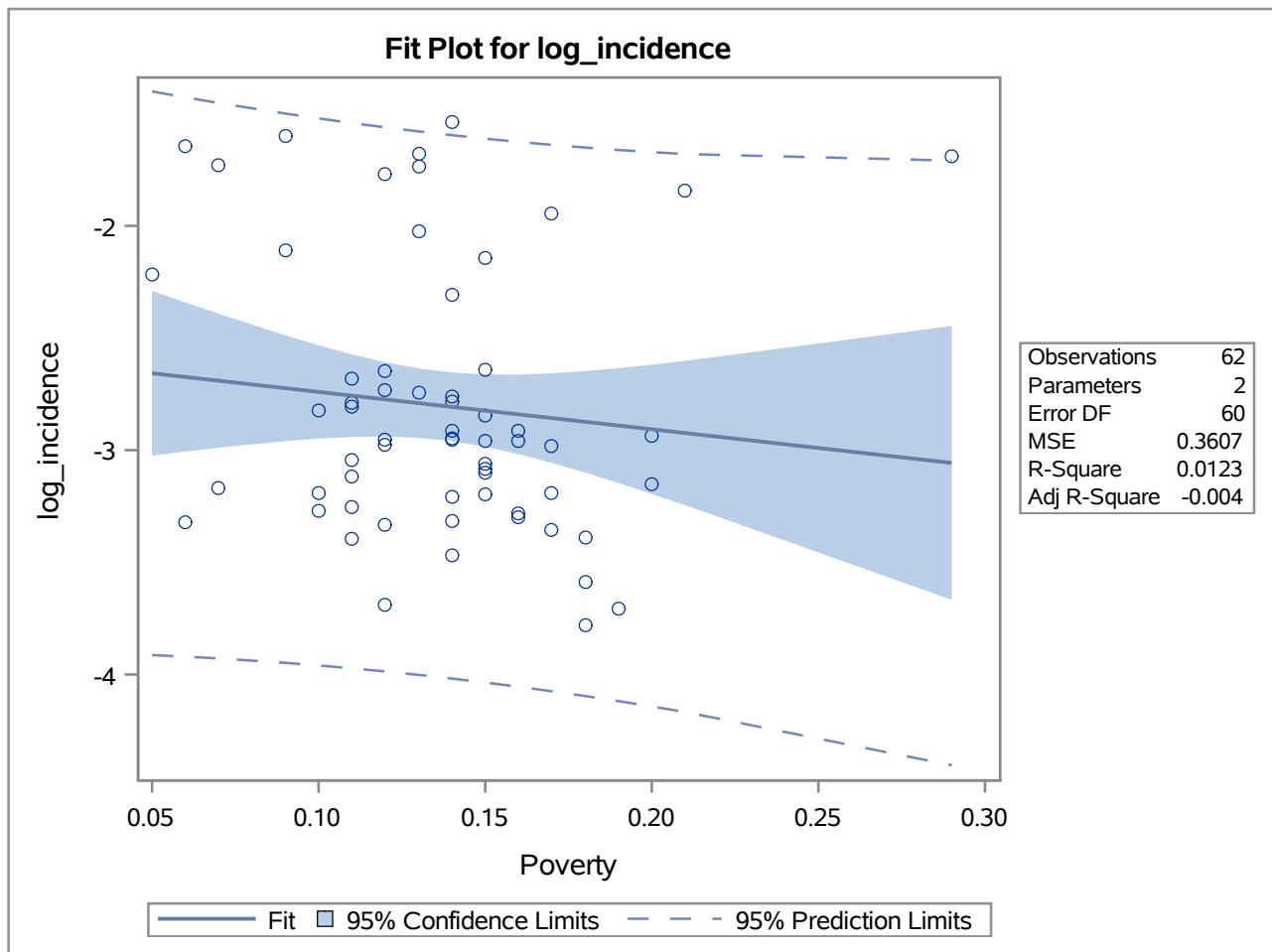
The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence

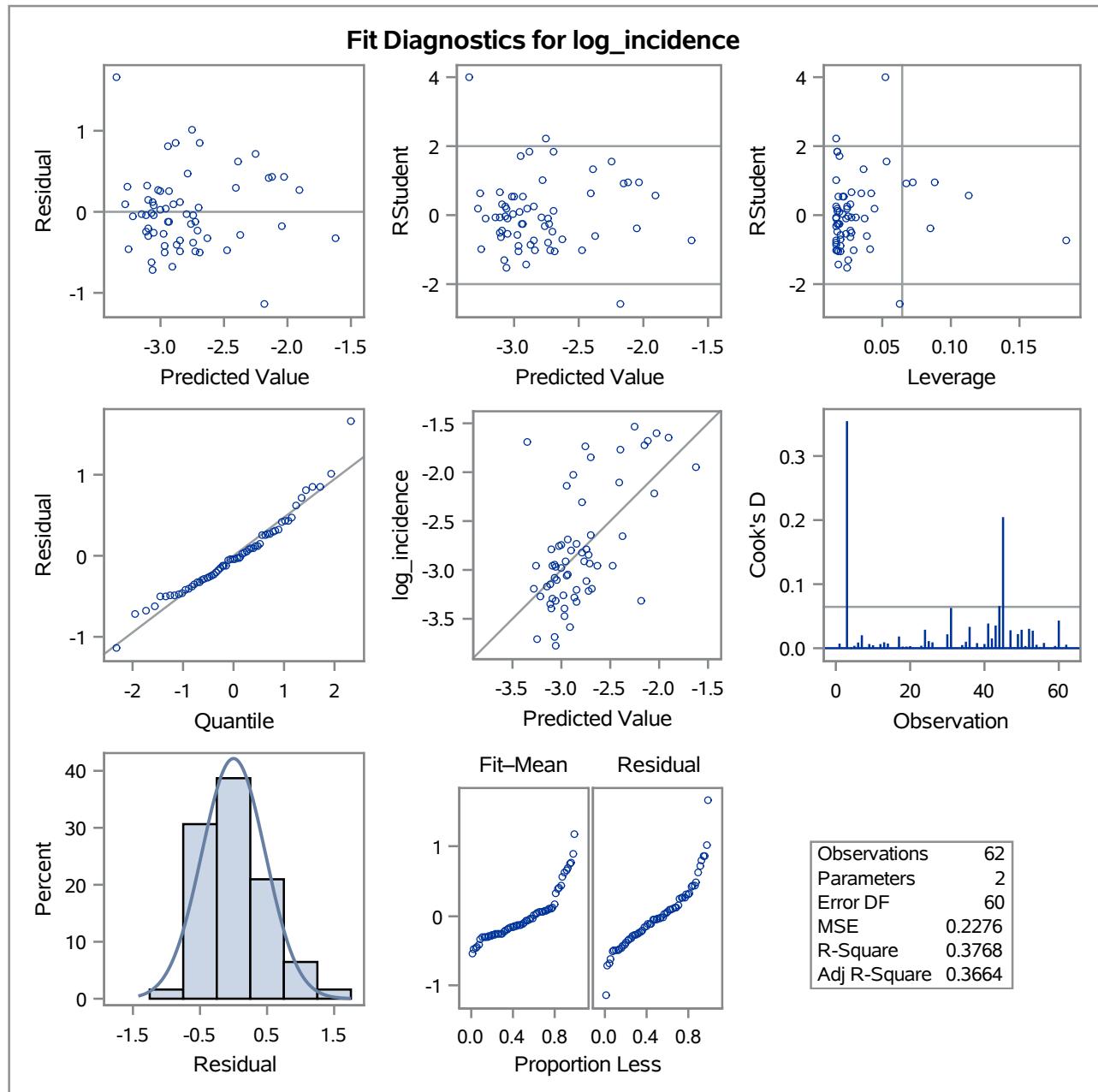
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	8.25657	8.25657	36.28	<.0001
Error	60	13.65589	0.22760		
Corrected Total	61	21.91246			

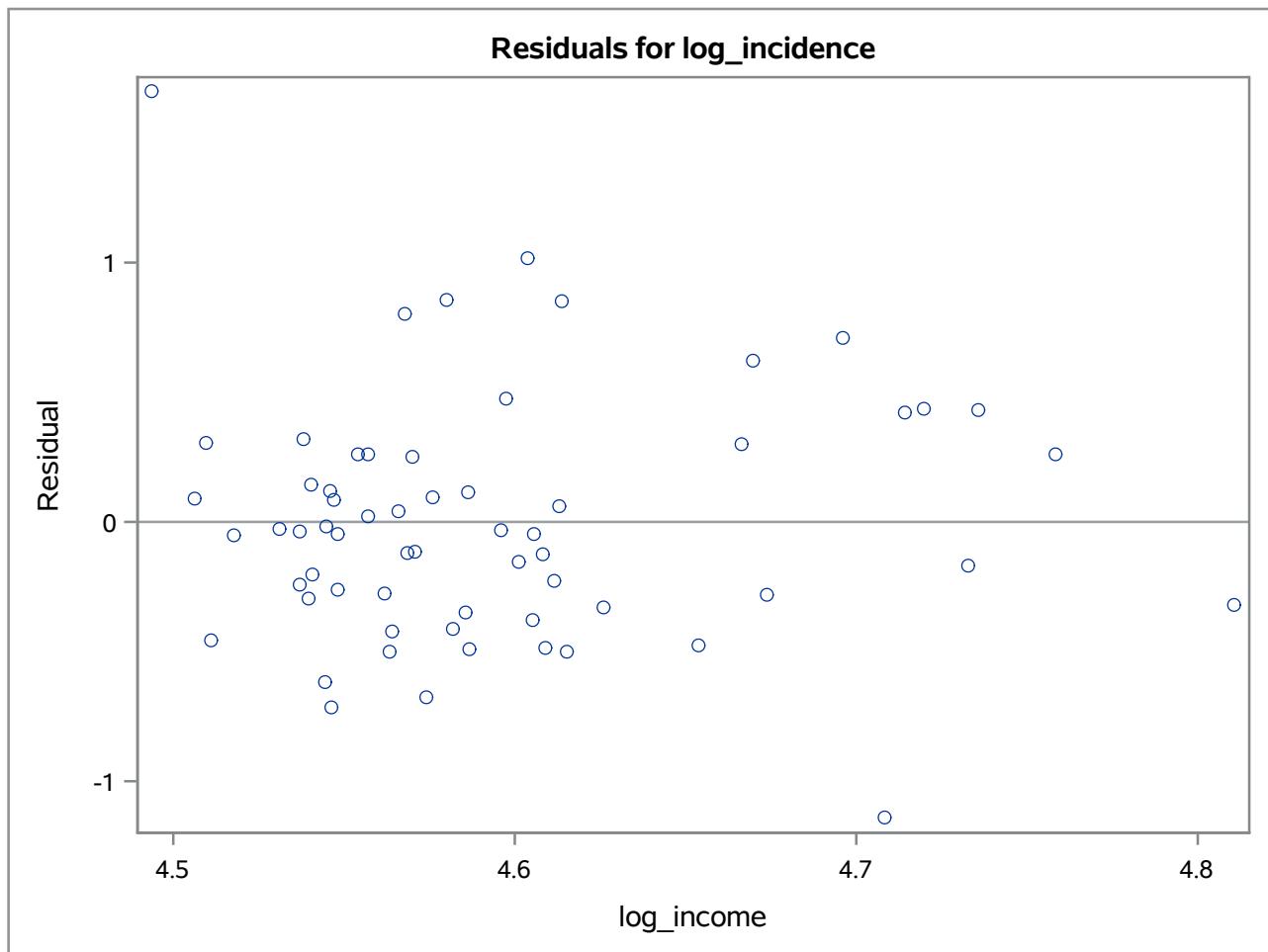
Root MSE	0.47707	R-Square	0.3768
Dependent Mean	-2.80151	Adj R-Sq	0.3664
Coeff Var	-17.02909		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-27.80909	4.15243	-6.70	<.0001
log_income	1	5.44321	0.90373	6.02	<.0001

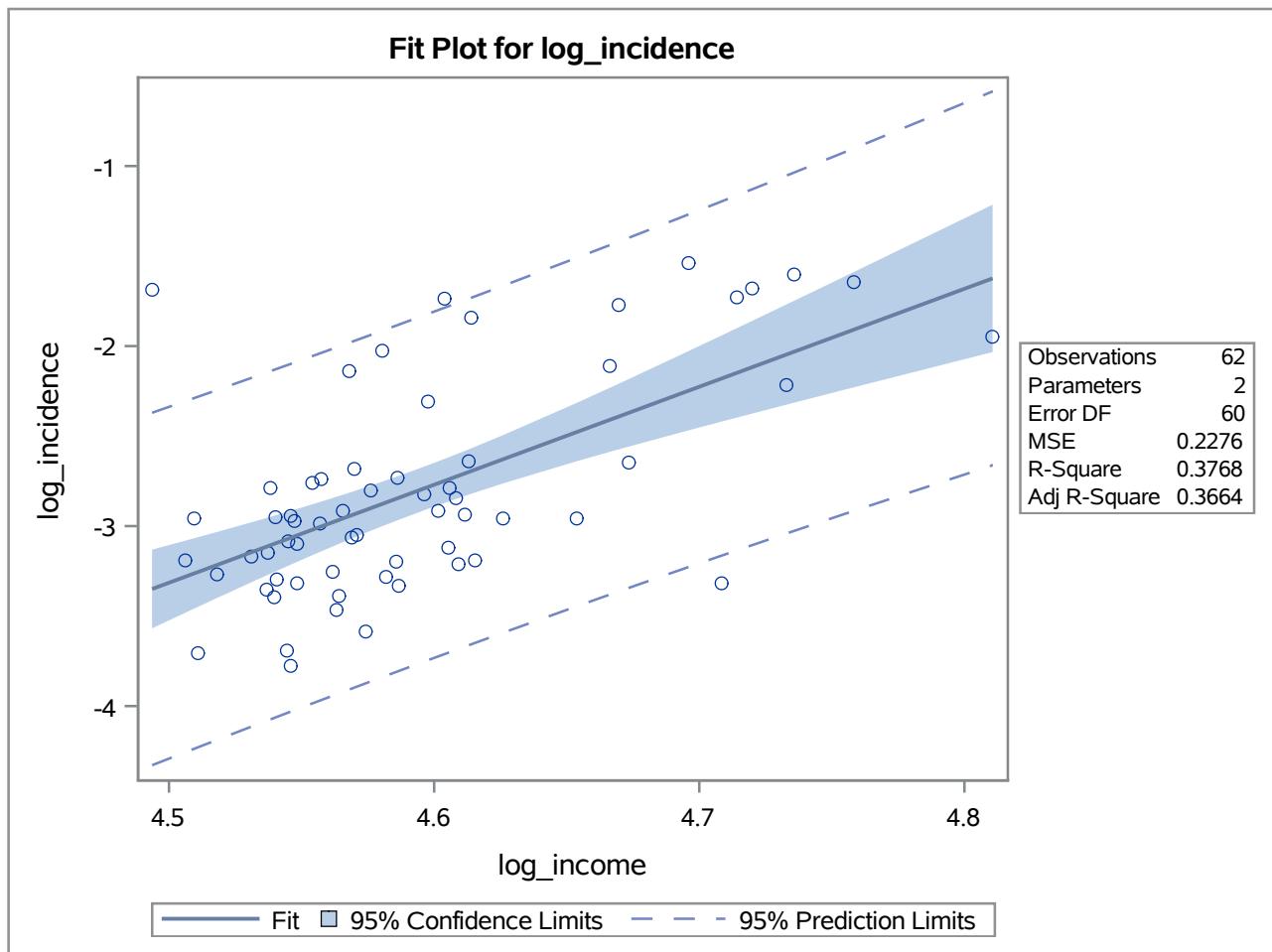
The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence

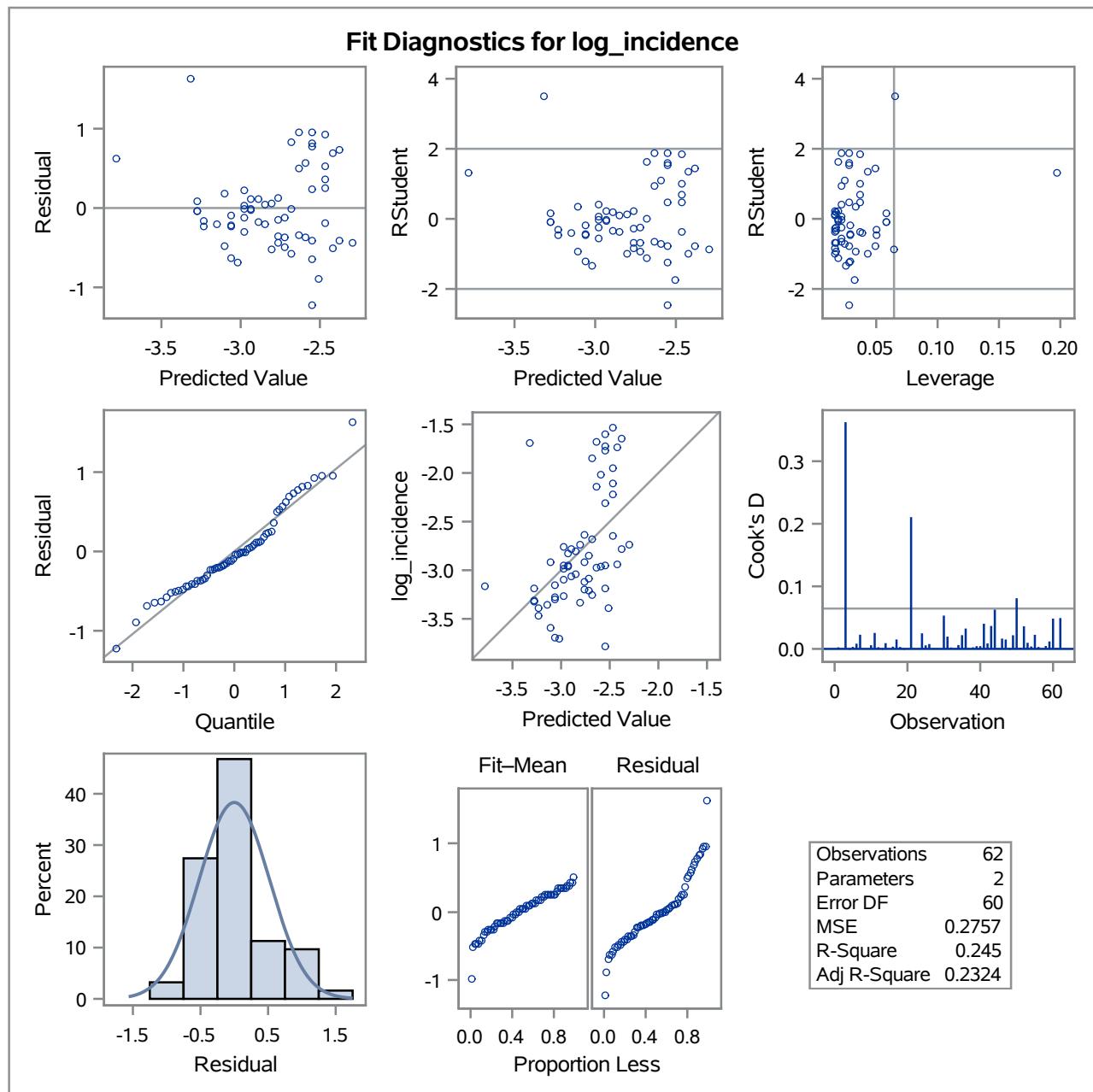
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.36850	5.36850	19.47	<.0001
Error	60	16.54396	0.27573		
Corrected Total	61	21.91246			

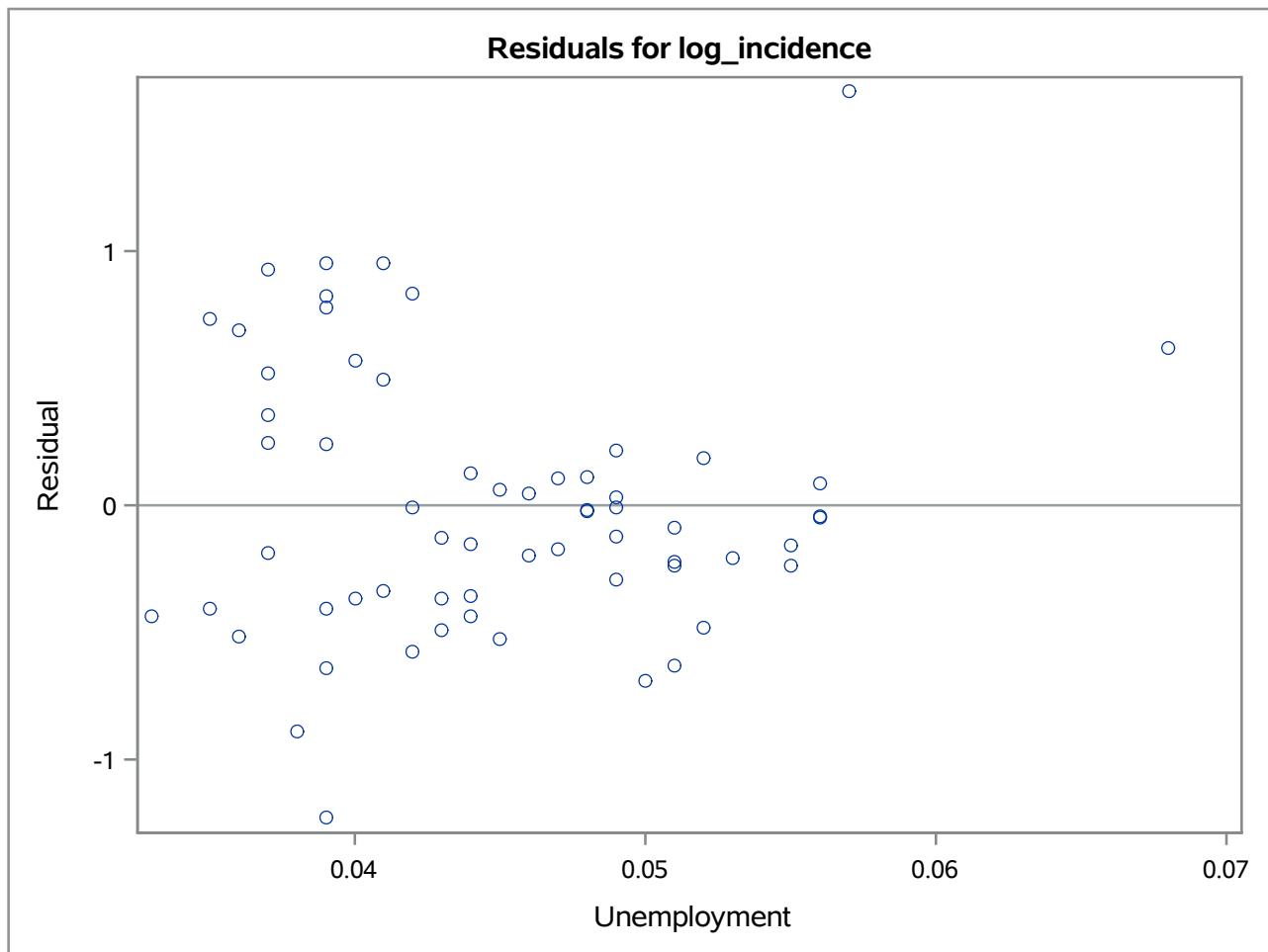
Root MSE	0.52510	R-Square	0.2450
Dependent Mean	-2.80151	Adj R-Sq	0.2324
Coeff Var	-18.74353		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.88643	0.43911	-2.02	0.0480
Unemployment	1	-42.64920	9.66560	-4.41	<.0001

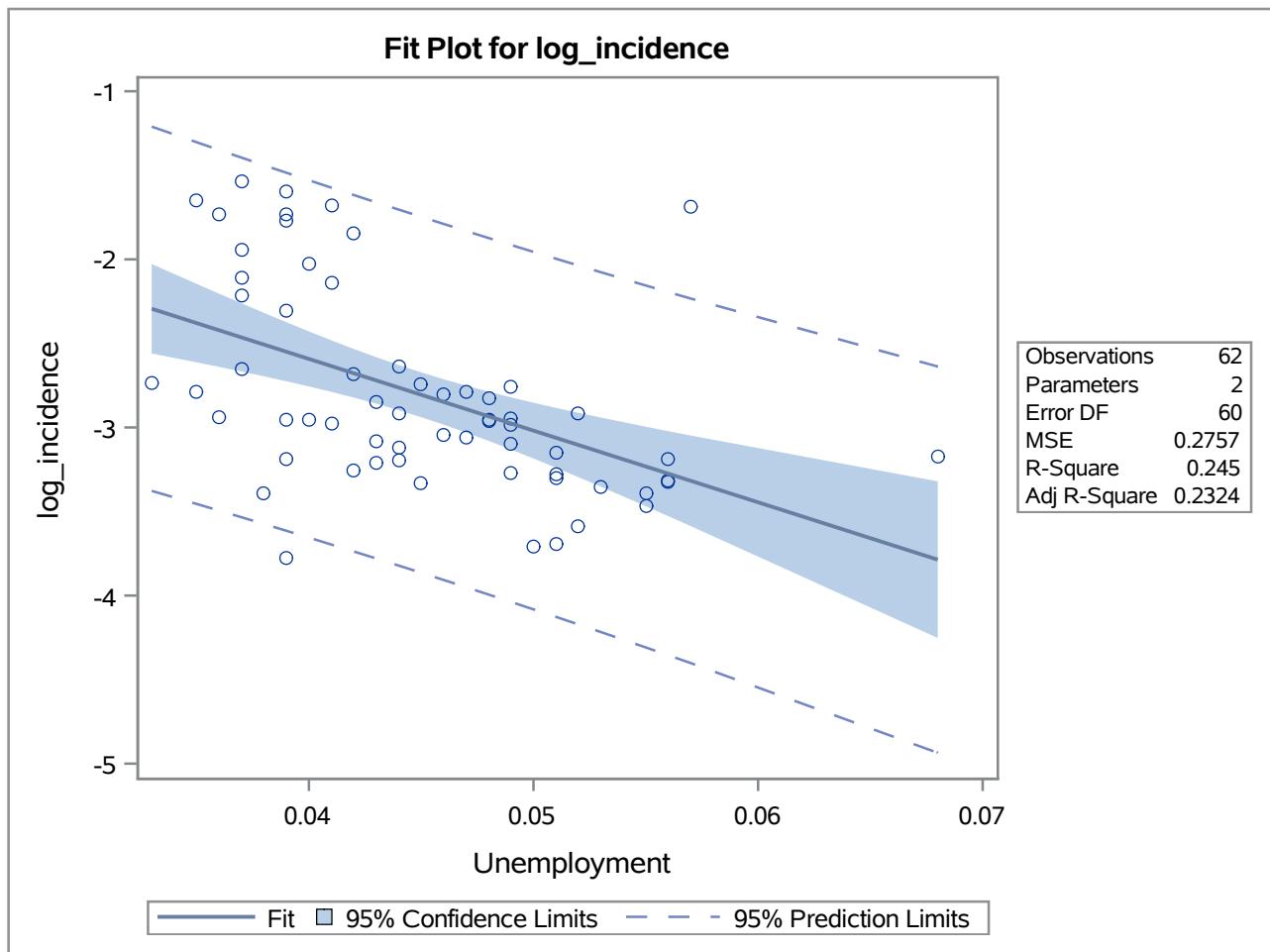
The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence

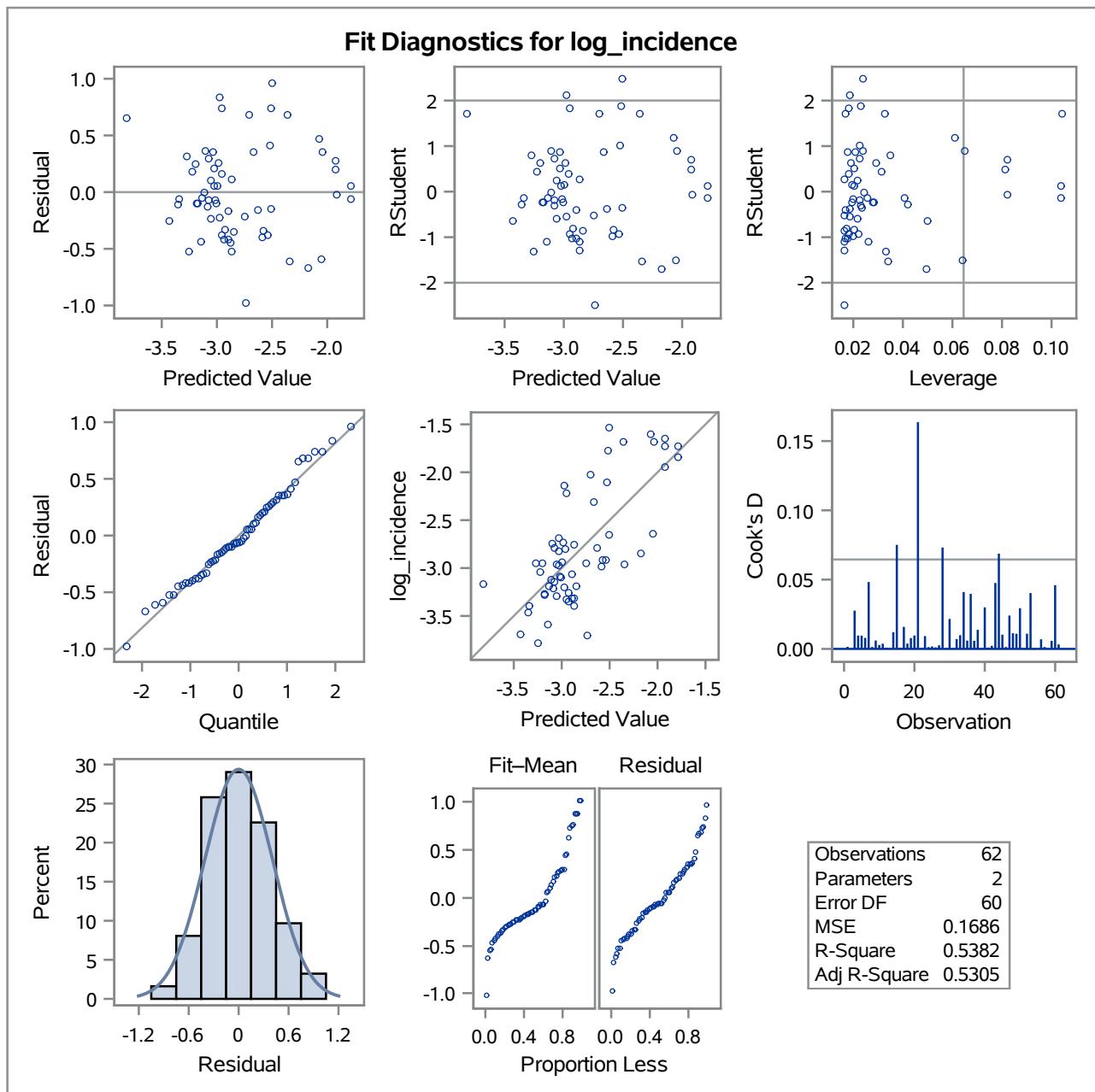
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	11.79402	11.79402	69.94	<.0001
Error	60	10.11843	0.16864		
Corrected Total	61	21.91246			

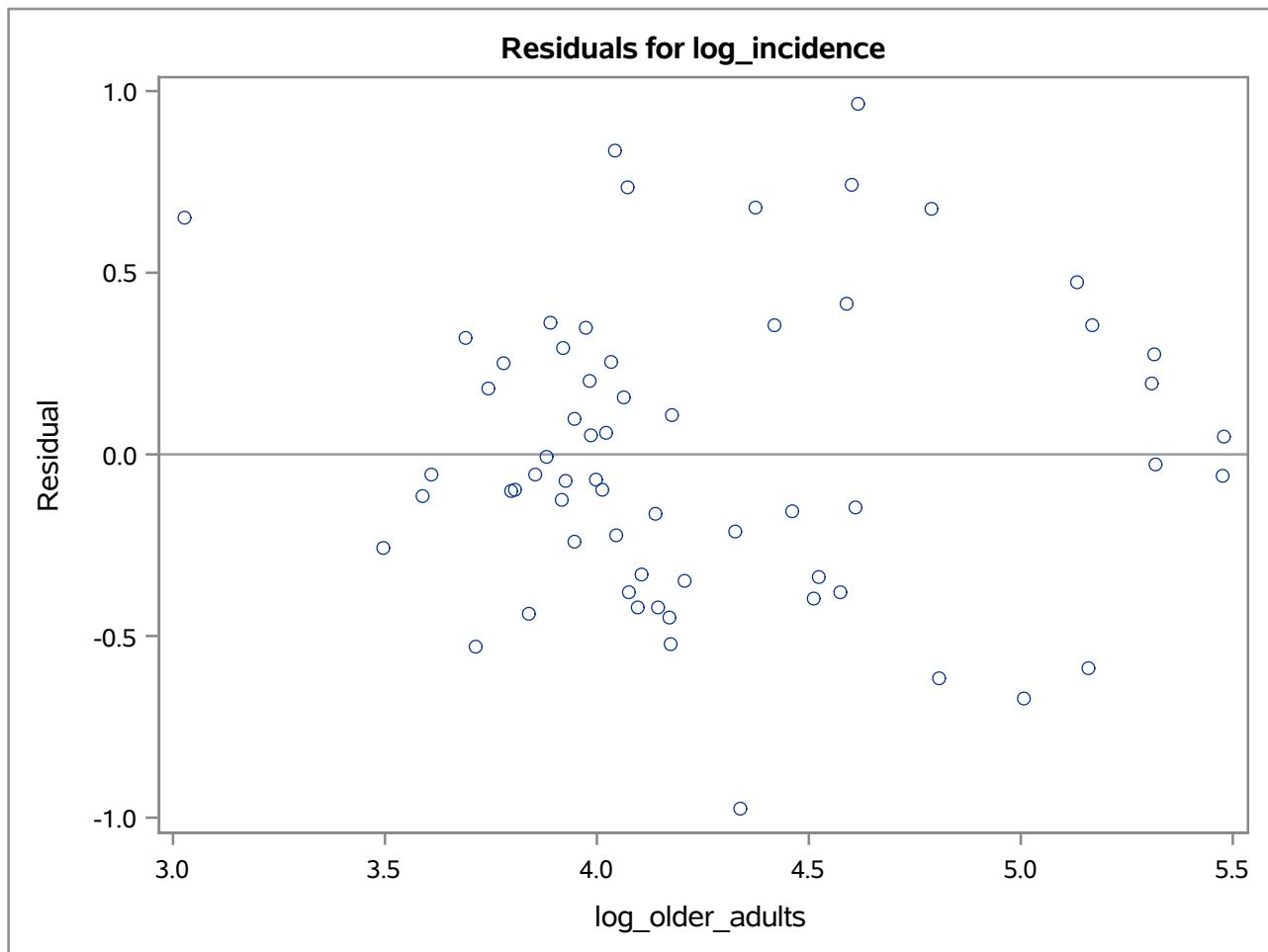
Root MSE	0.41066	R-Square	0.5382
Dependent Mean	-2.80151	Adj R-Sq	0.5305
Coeff Var	-14.65845		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-6.33738	0.42601	-14.88	<.0001
log_older_adults	1	0.83103	0.09937	8.36	<.0001

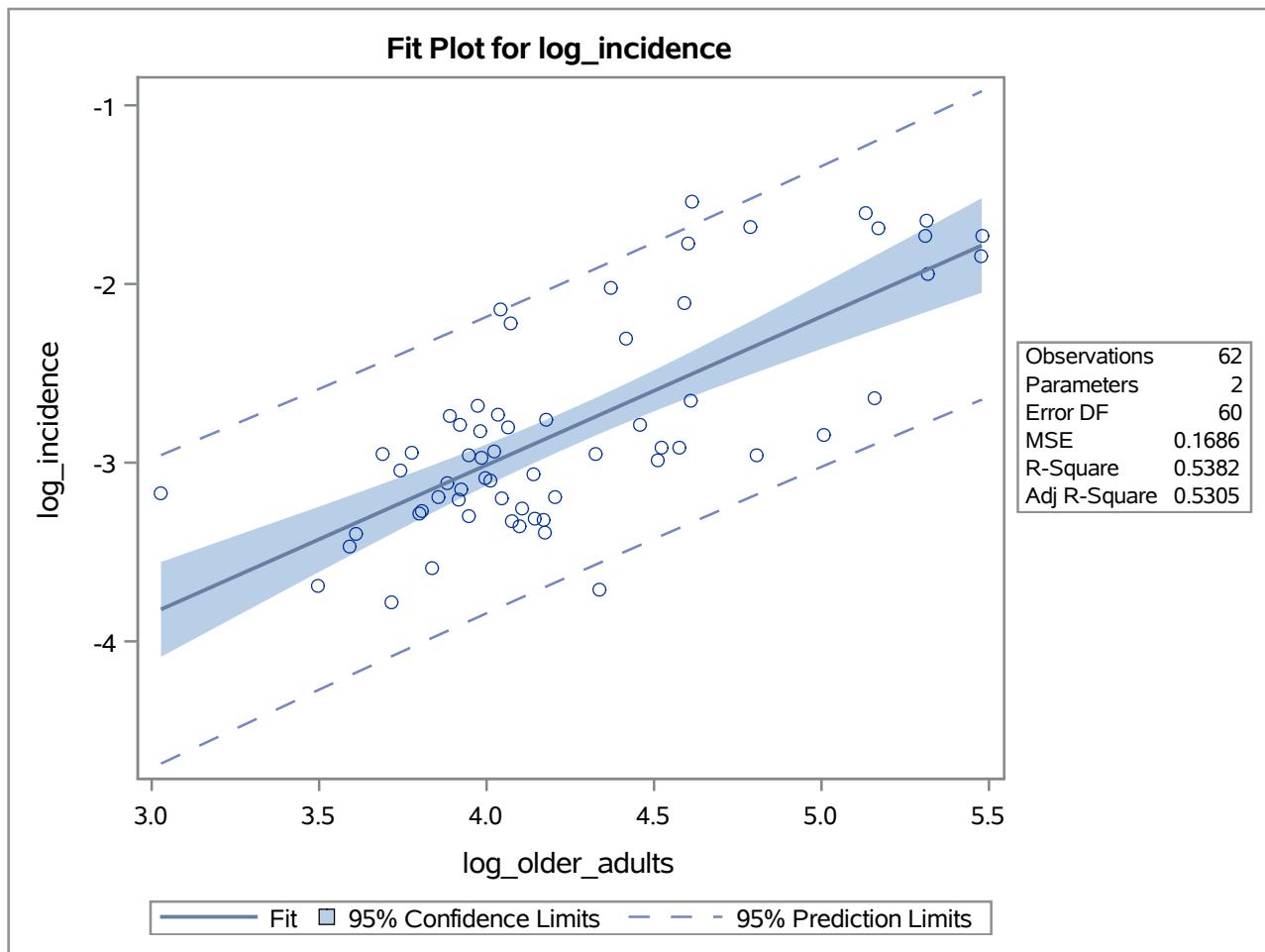
The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence

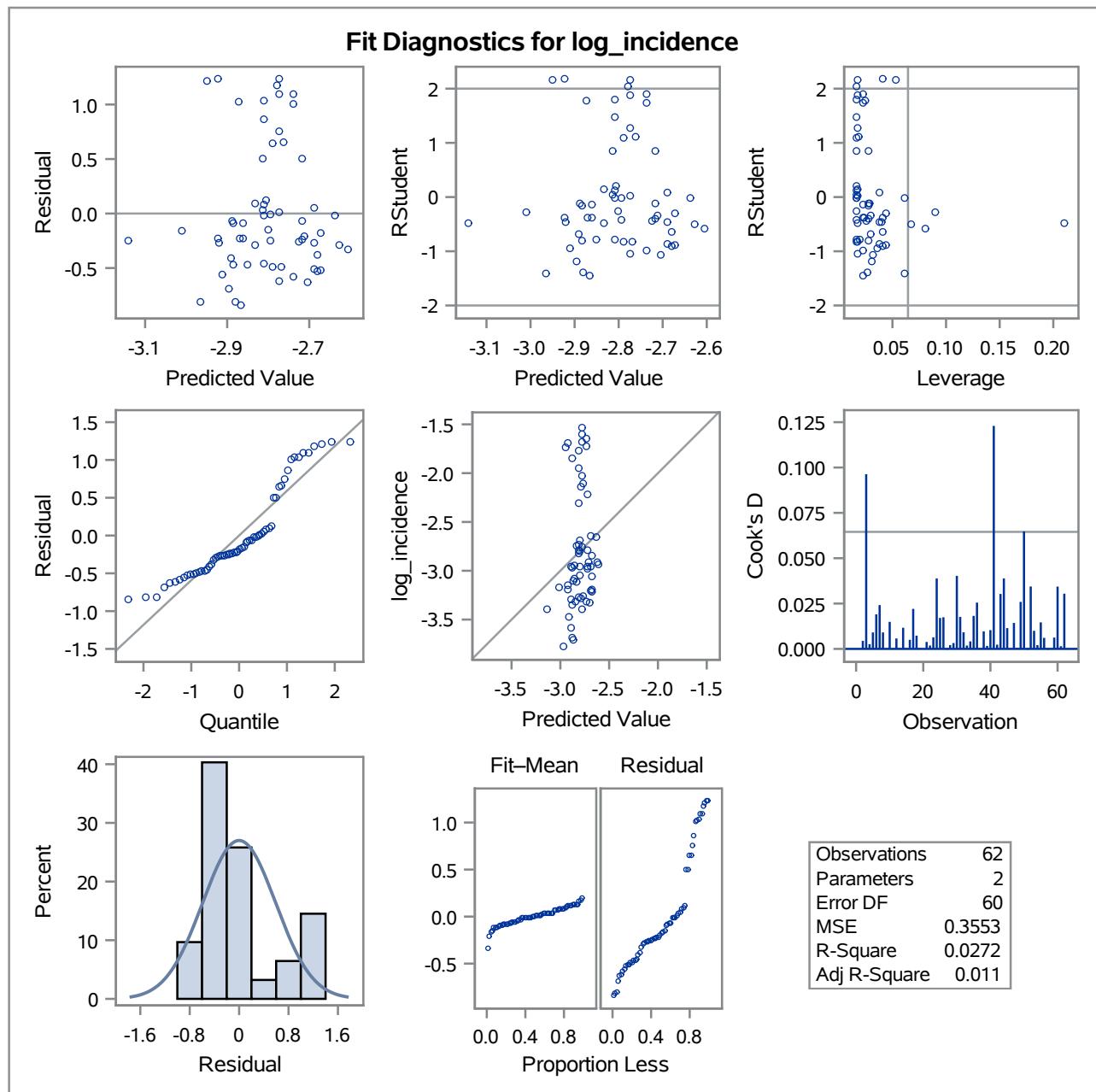
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.59682	0.59682	1.68	0.1999
Error	60	21.31564	0.35526		
Corrected Total	61	21.91246			

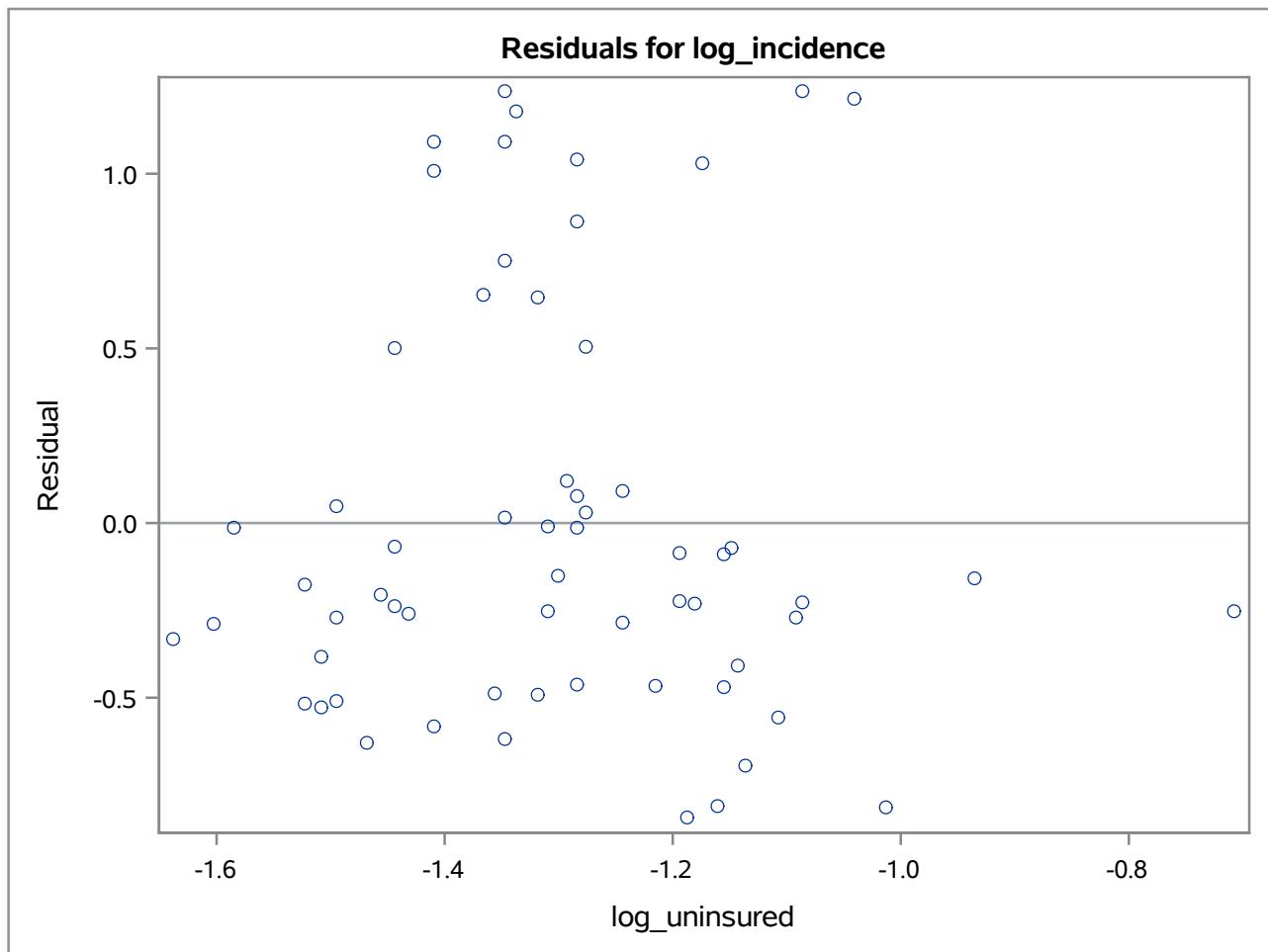
Root MSE	0.59604	R-Square	0.0272
Dependent Mean	-2.80151	Adj R-Sq	0.0110
Coeff Var	-21.27555		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-3.54970	0.58219	-6.10	<.0001
log_uninsured	1	-0.57621	0.44457	-1.30	0.1999

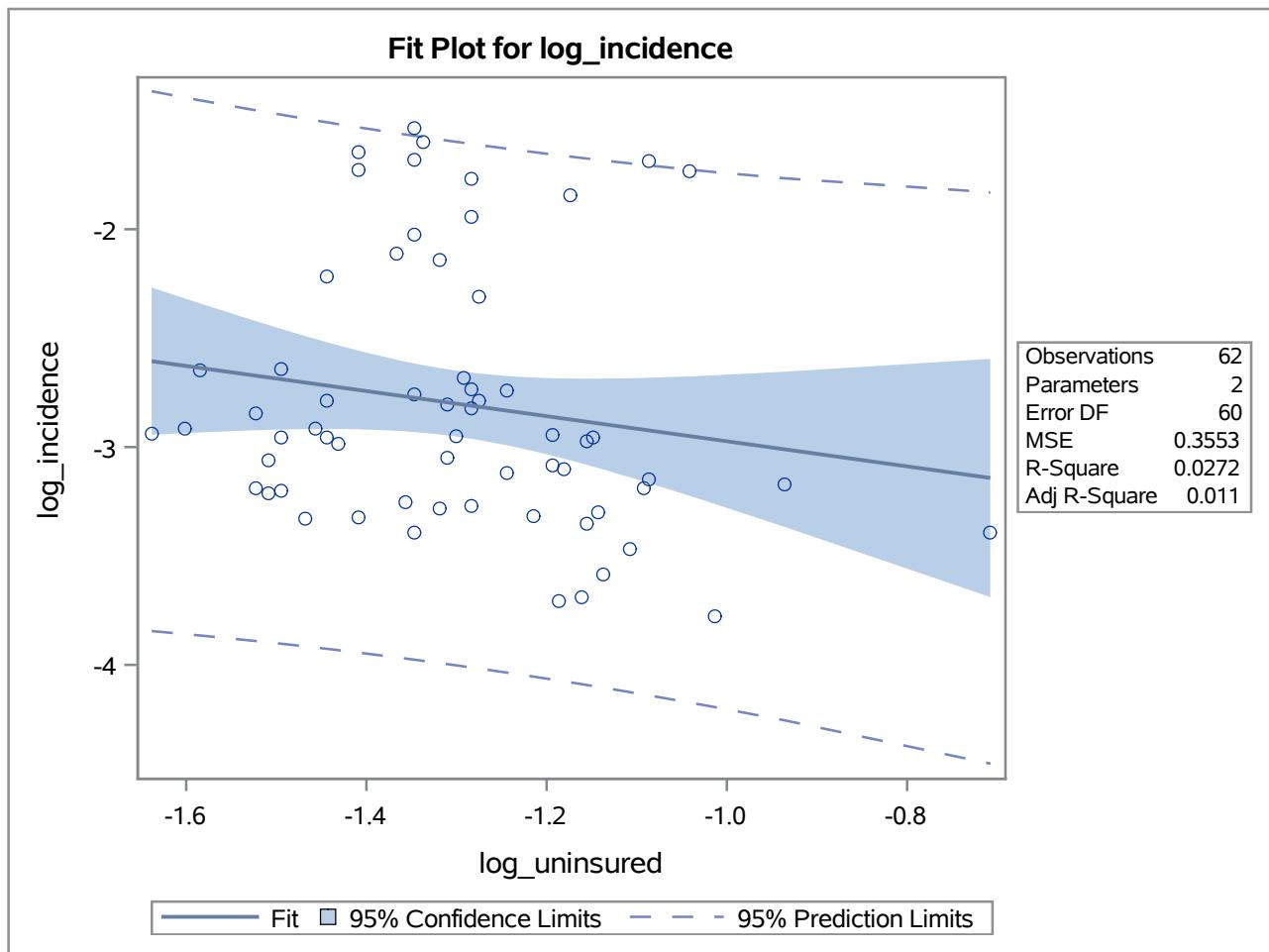
The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence

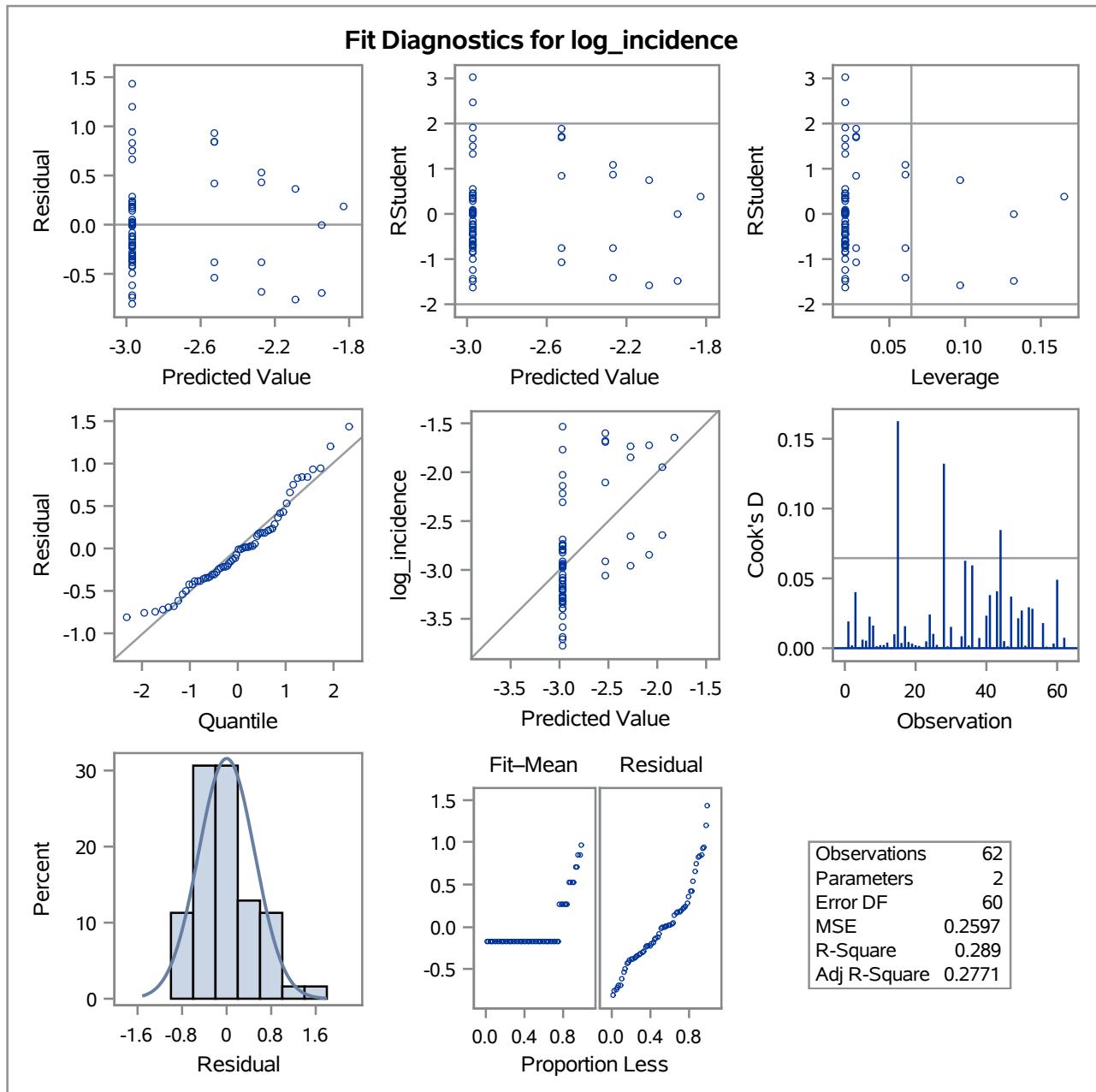
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.33249	6.33249	24.39	<.0001
Error	60	15.57997	0.25967		
Corrected Total	61	21.91246			

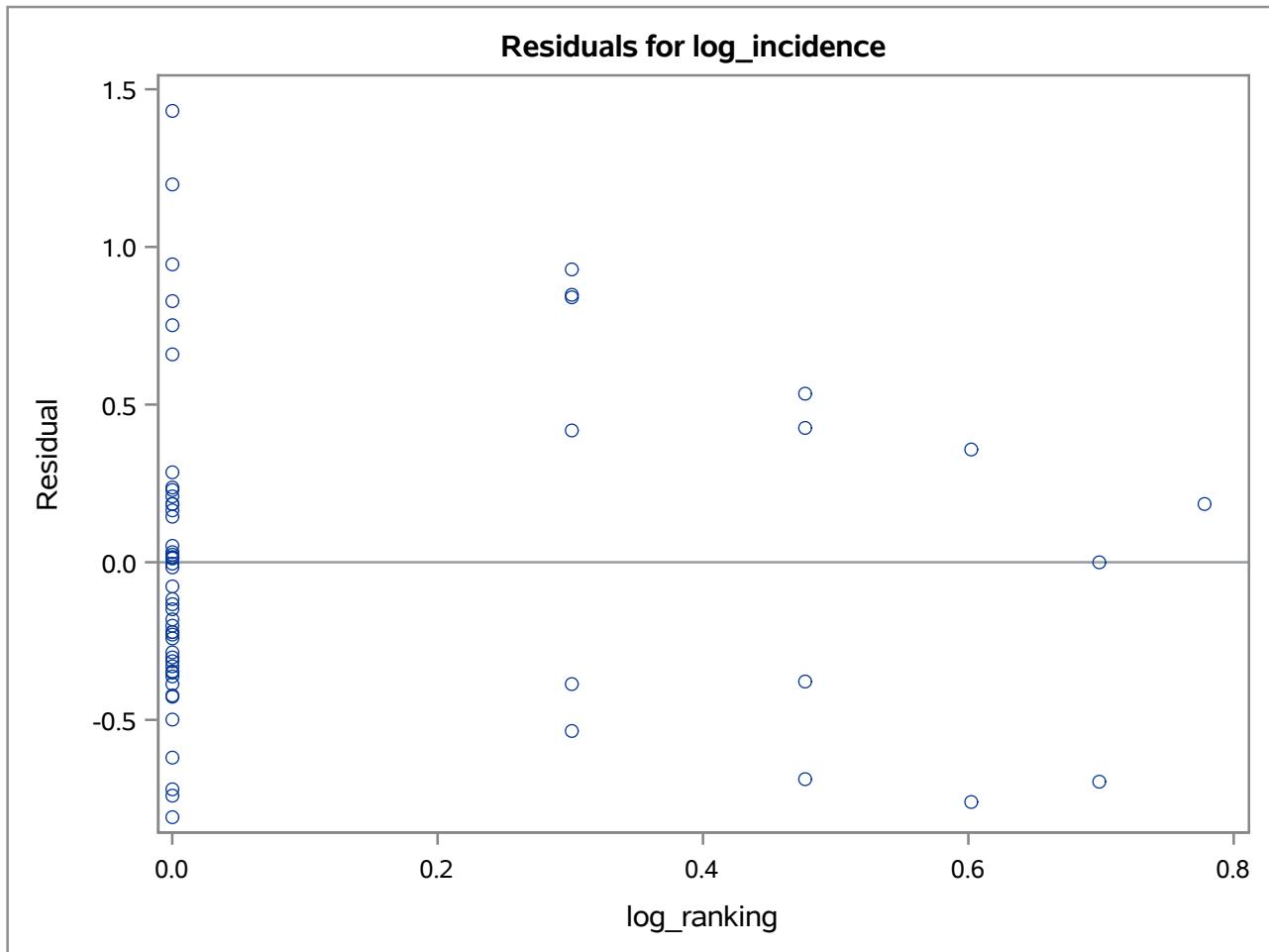
Root MSE	0.50957	R-Square	0.2890
Dependent Mean	-2.80151	Adj R-Sq	0.2771
Coeff Var	-18.18925		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.96917	0.07308	-40.63	<.0001
log_ranking	1	1.46513	0.29669	4.94	<.0001

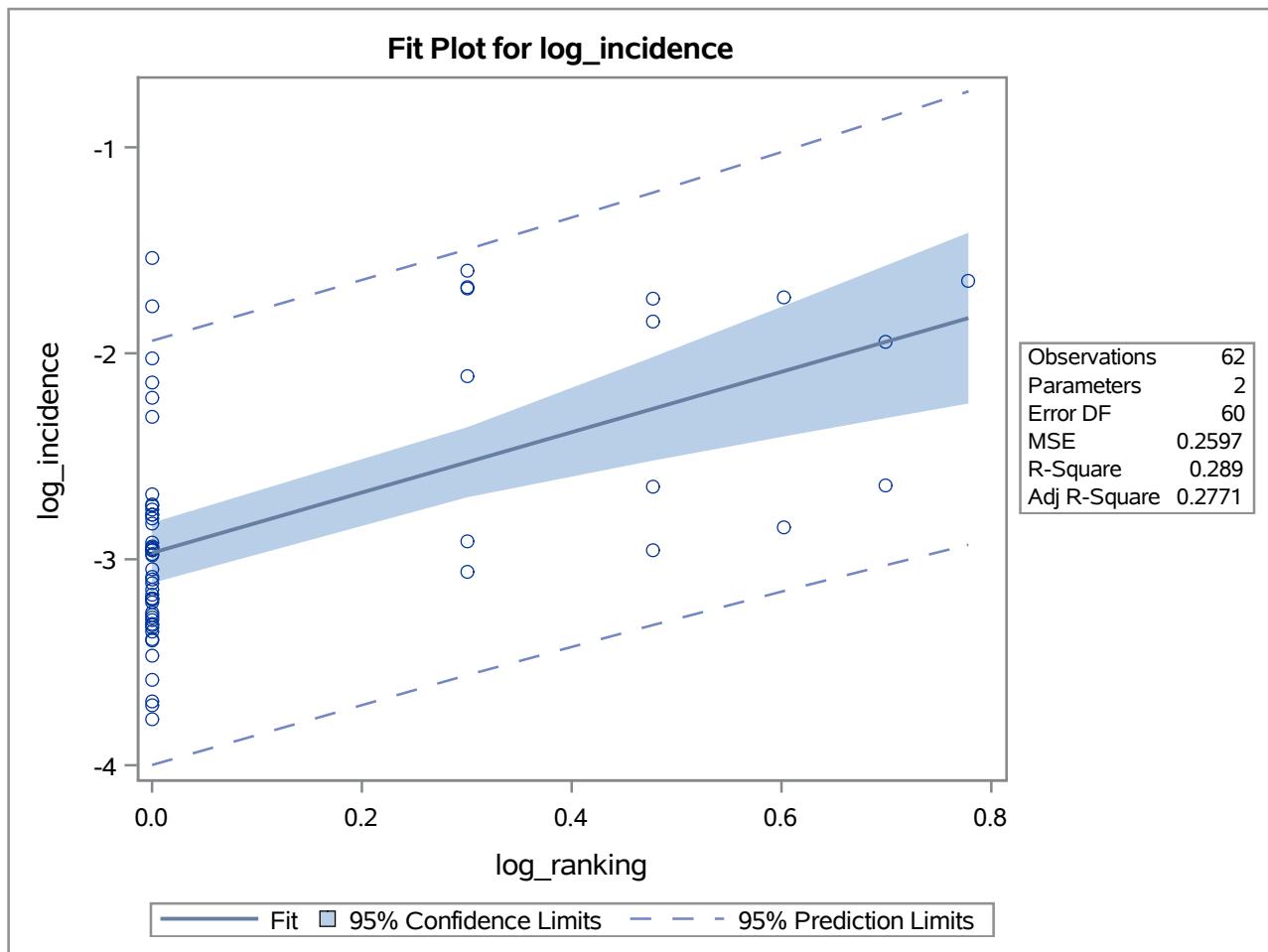
The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence



The REG Procedure Model: MODEL8 Dependent Variable: log_incidence



The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence

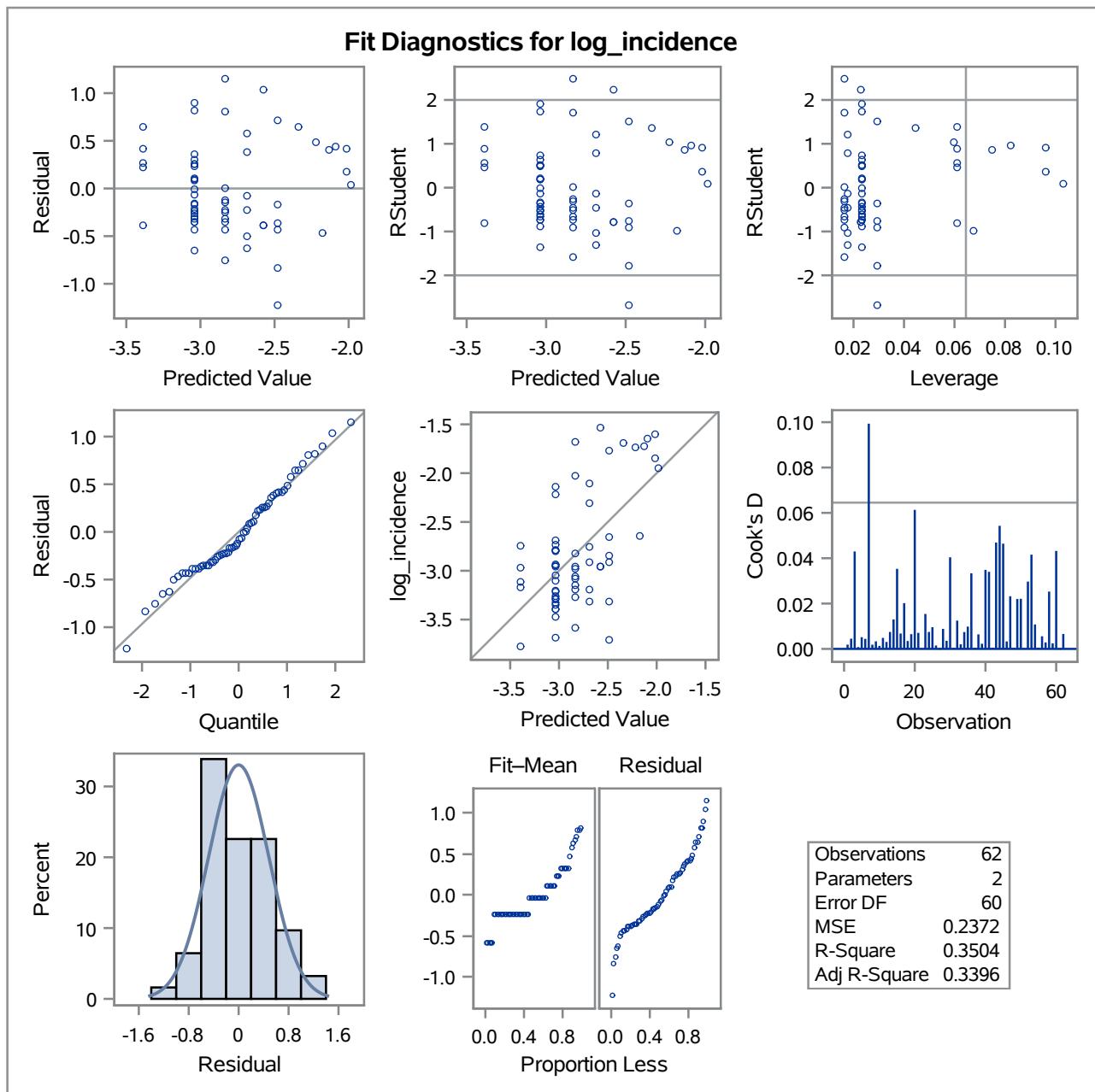
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	7.67908	7.67908	32.37	<.0001
Error	60	14.23338	0.23722		
Corrected Total	61	21.91246			

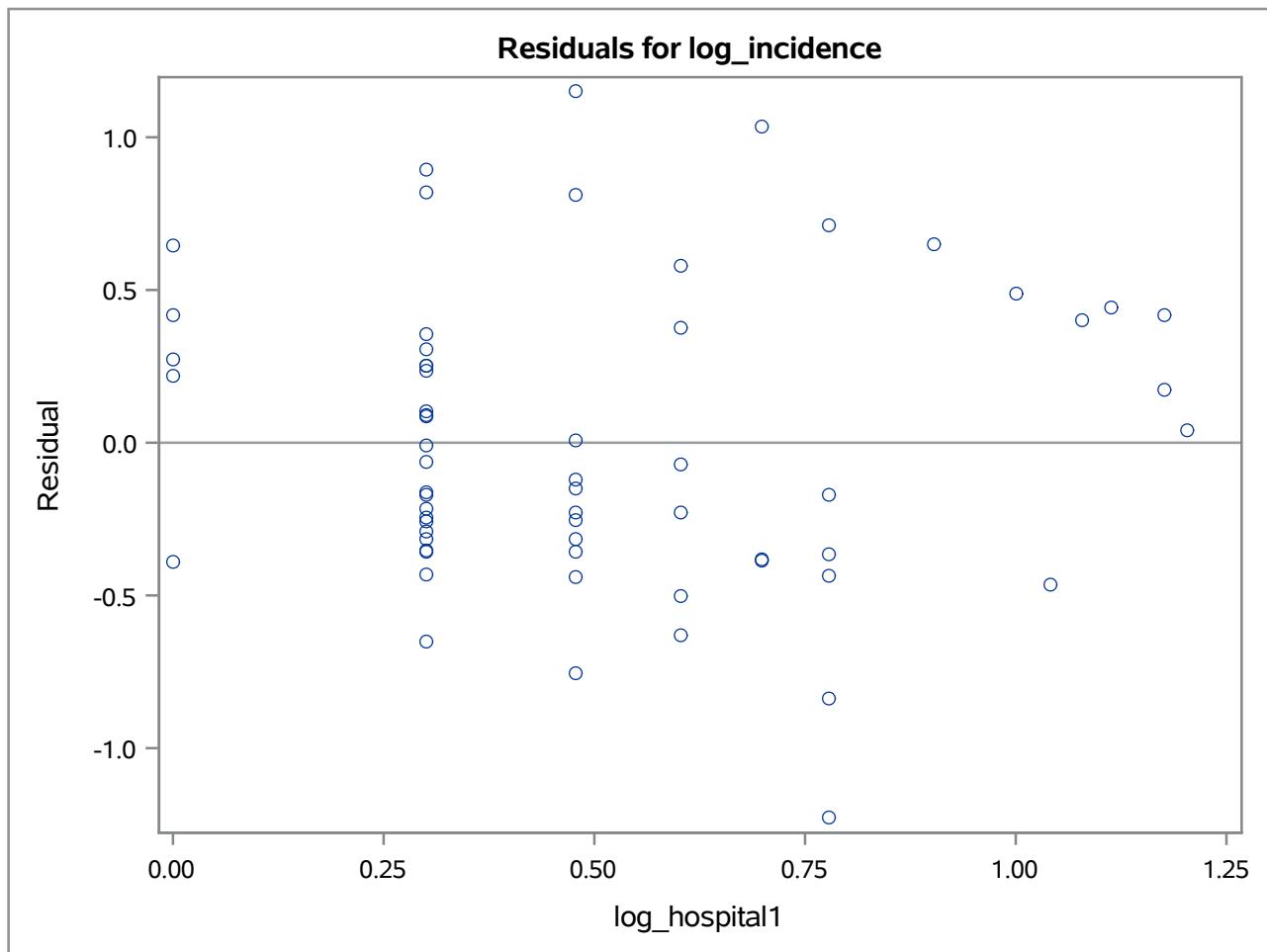
Root MSE	0.48706	R-Square	0.3504
Dependent Mean	-2.80151	Adj R-Sq	0.3396
Coeff Var	-17.38543		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-3.38960	0.12046	-28.14	<.0001
log_hospital1	1	1.16698	0.20511	5.69	<.0001

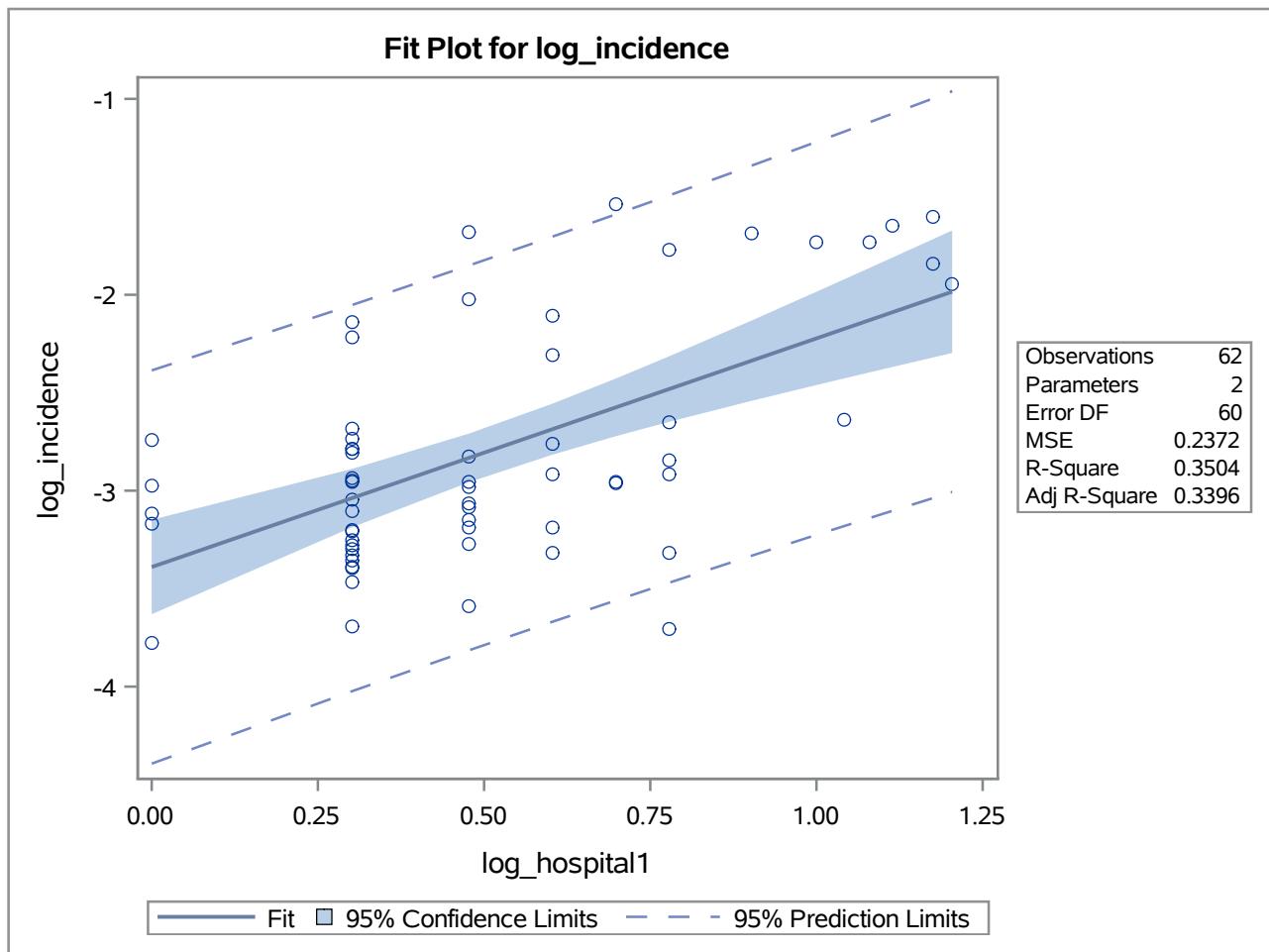
The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL10
Dependent Variable: log_incidence

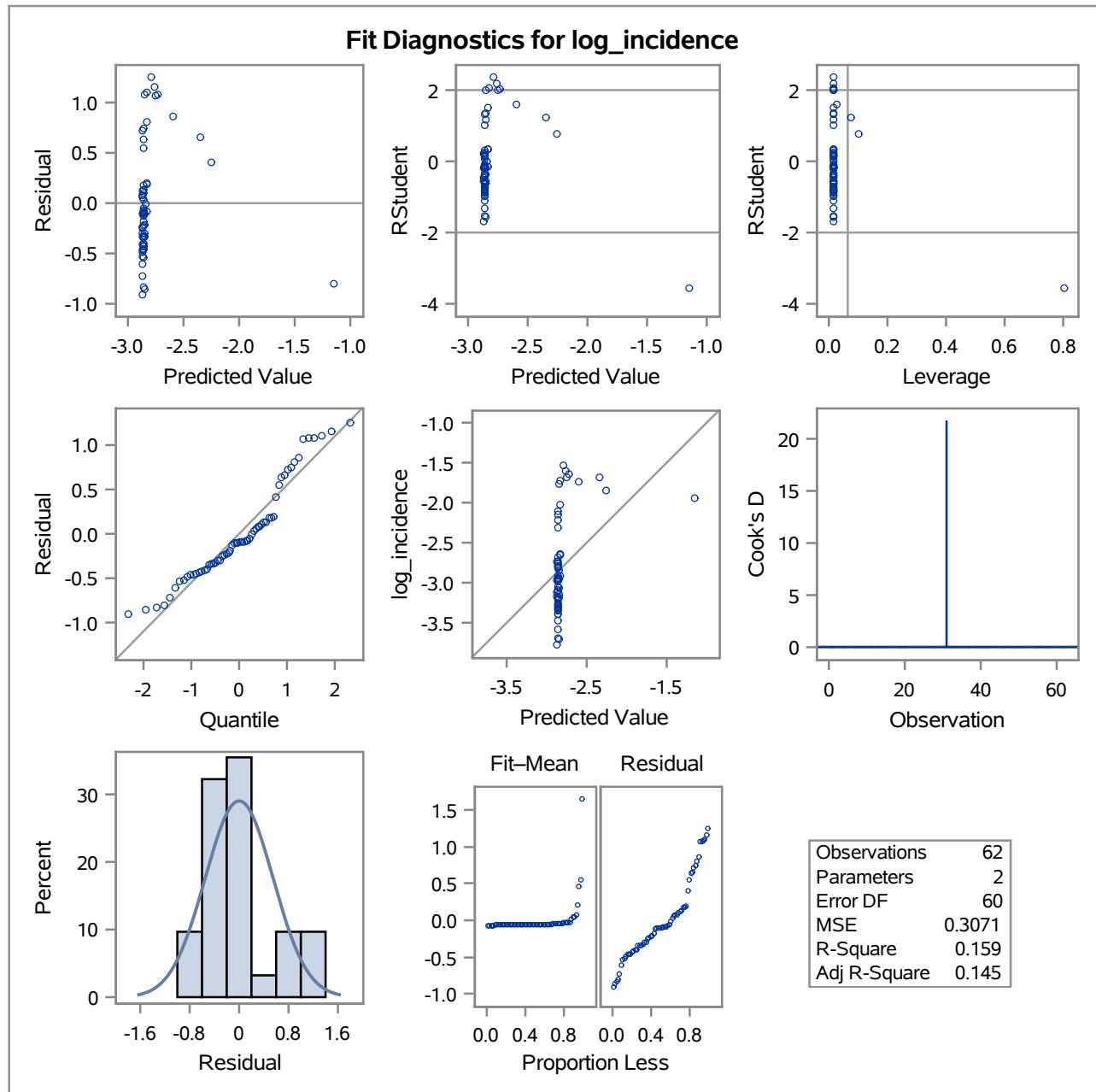
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3.48364	3.48364	11.34	0.0013
Error	60	18.42882	0.30715		
Corrected Total	61	21.91246			

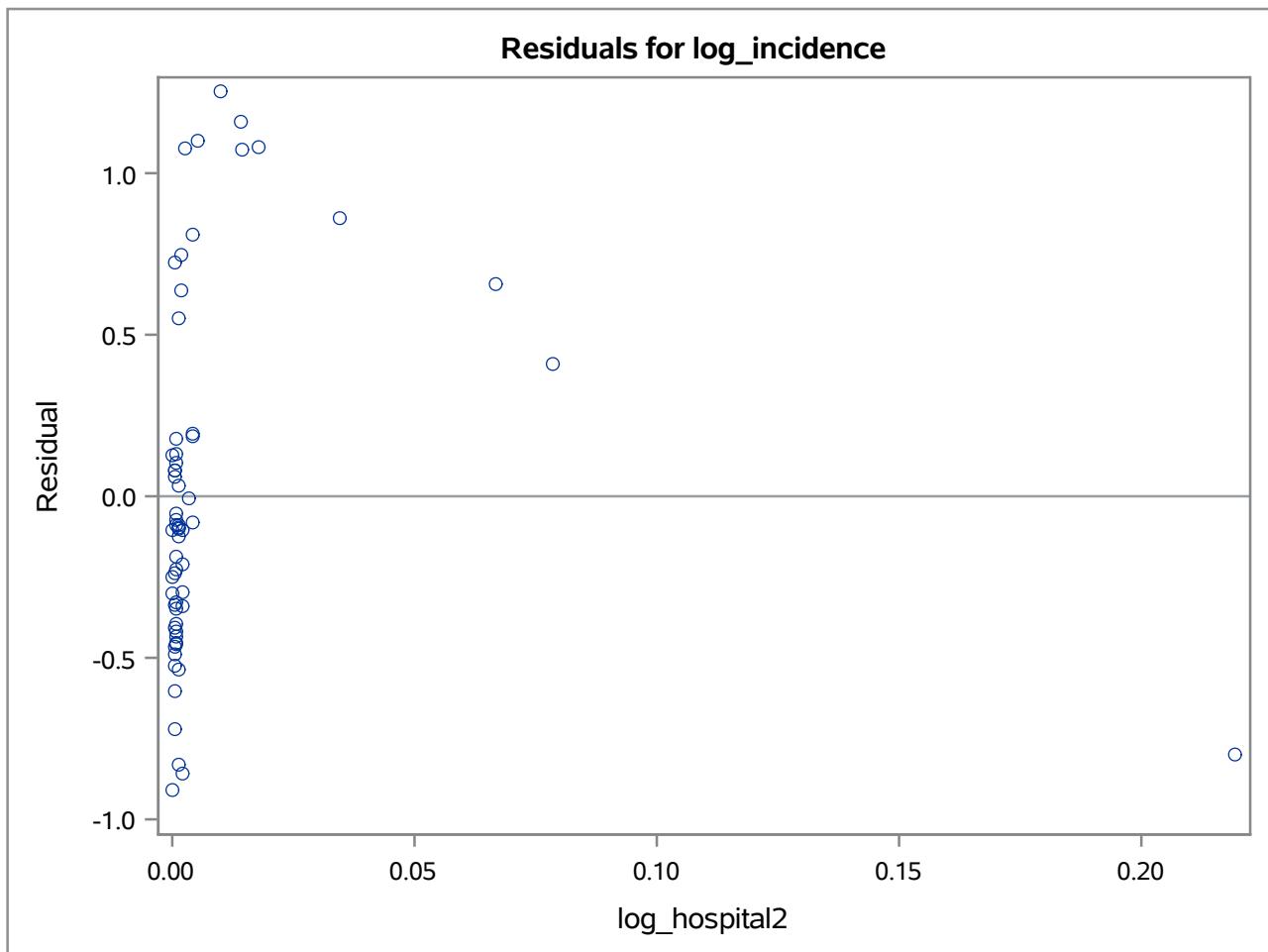
Root MSE	0.55421	R-Square	0.1590
Dependent Mean	-2.80151	Adj R-Sq	0.1450
Coeff Var	-19.78246		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.86829	0.07312	-39.23	<.0001
log_hospital2	1	7.85704	2.33300	3.37	0.0013

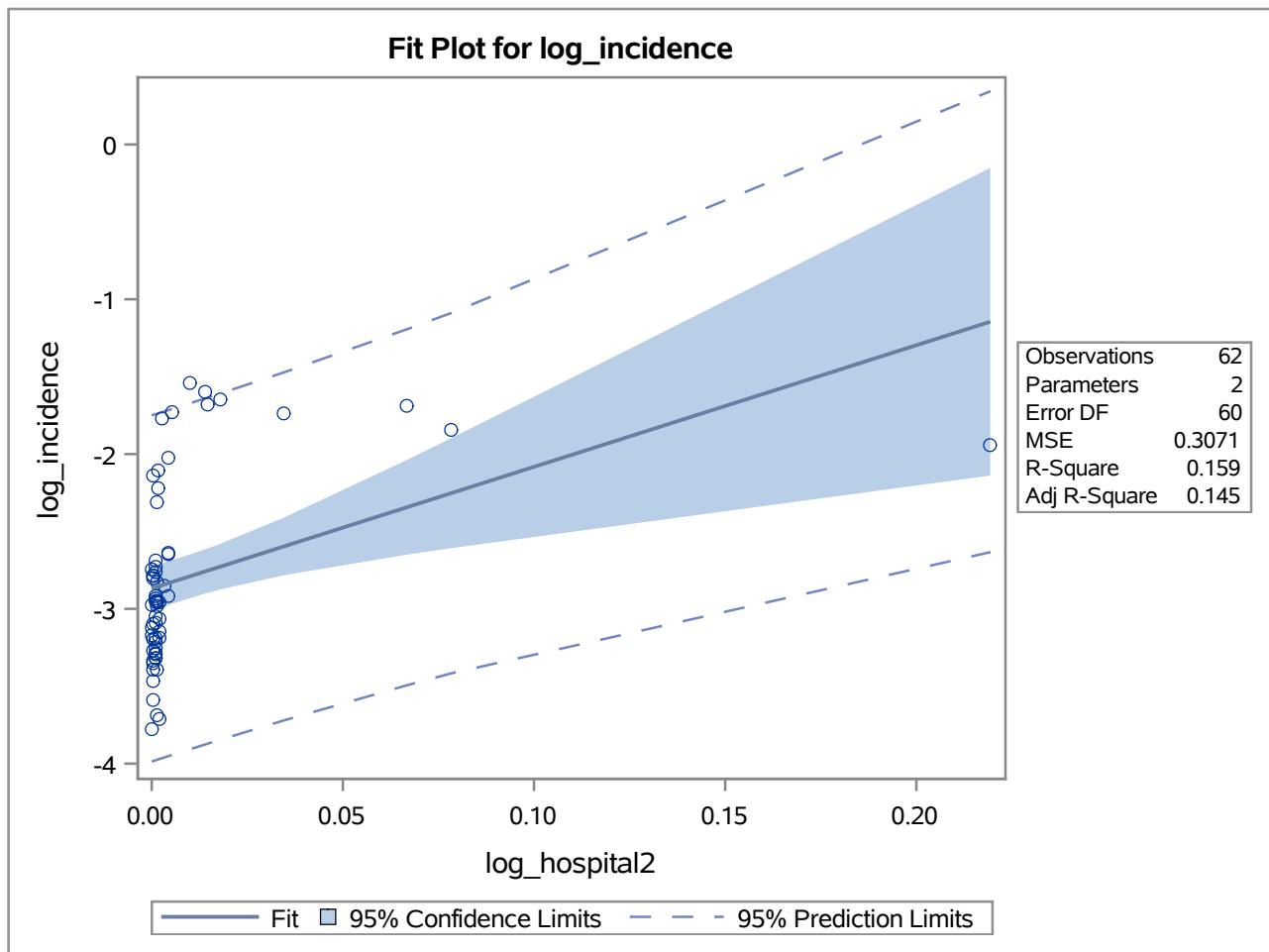
The REG Procedure
Model: MODEL10
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL10
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL10
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL11
Dependent Variable: log_incidence

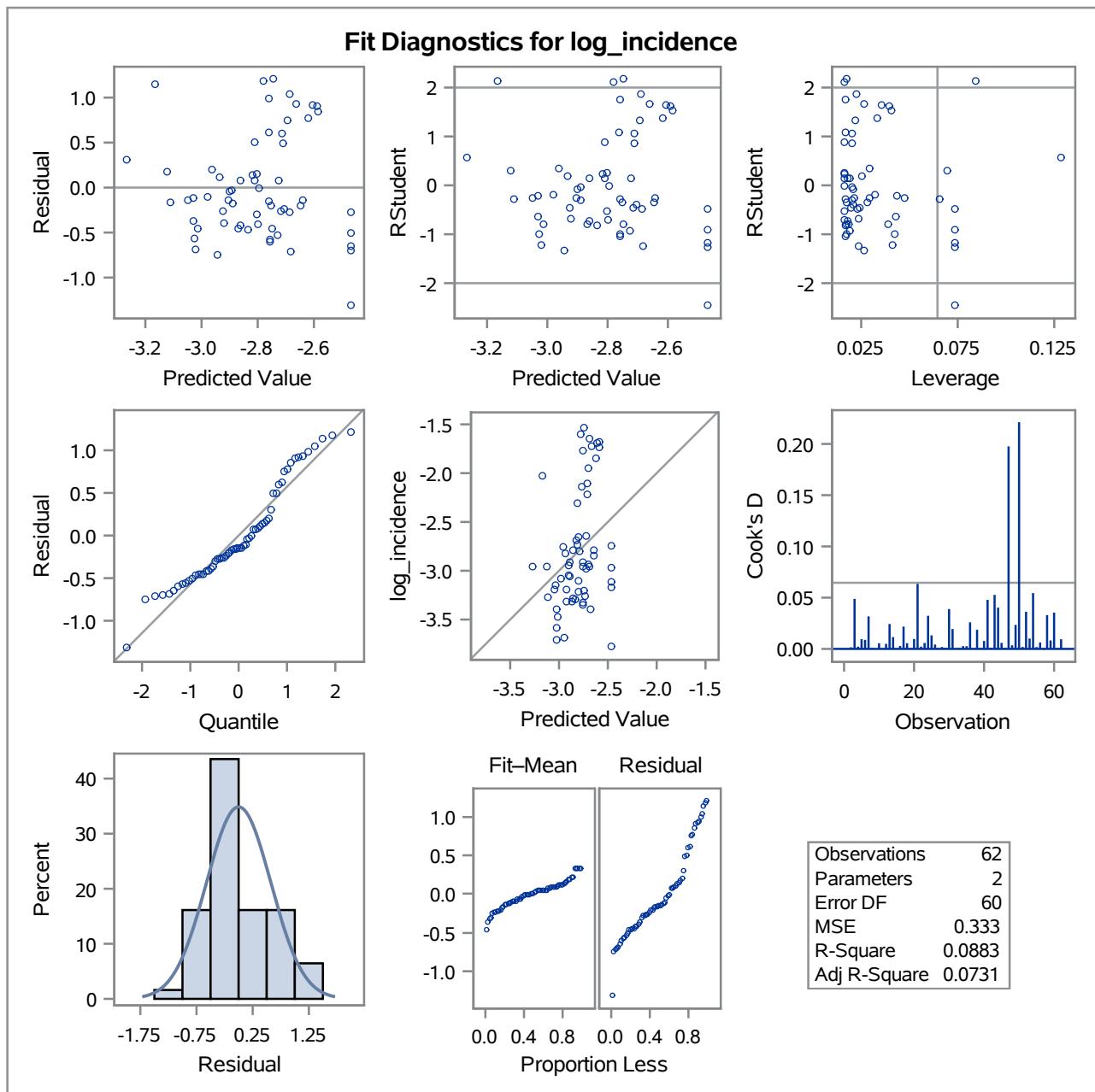
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.93434	1.93434	5.81	0.0190
Error	60	19.97811	0.33297		
Corrected Total	61	21.91246			

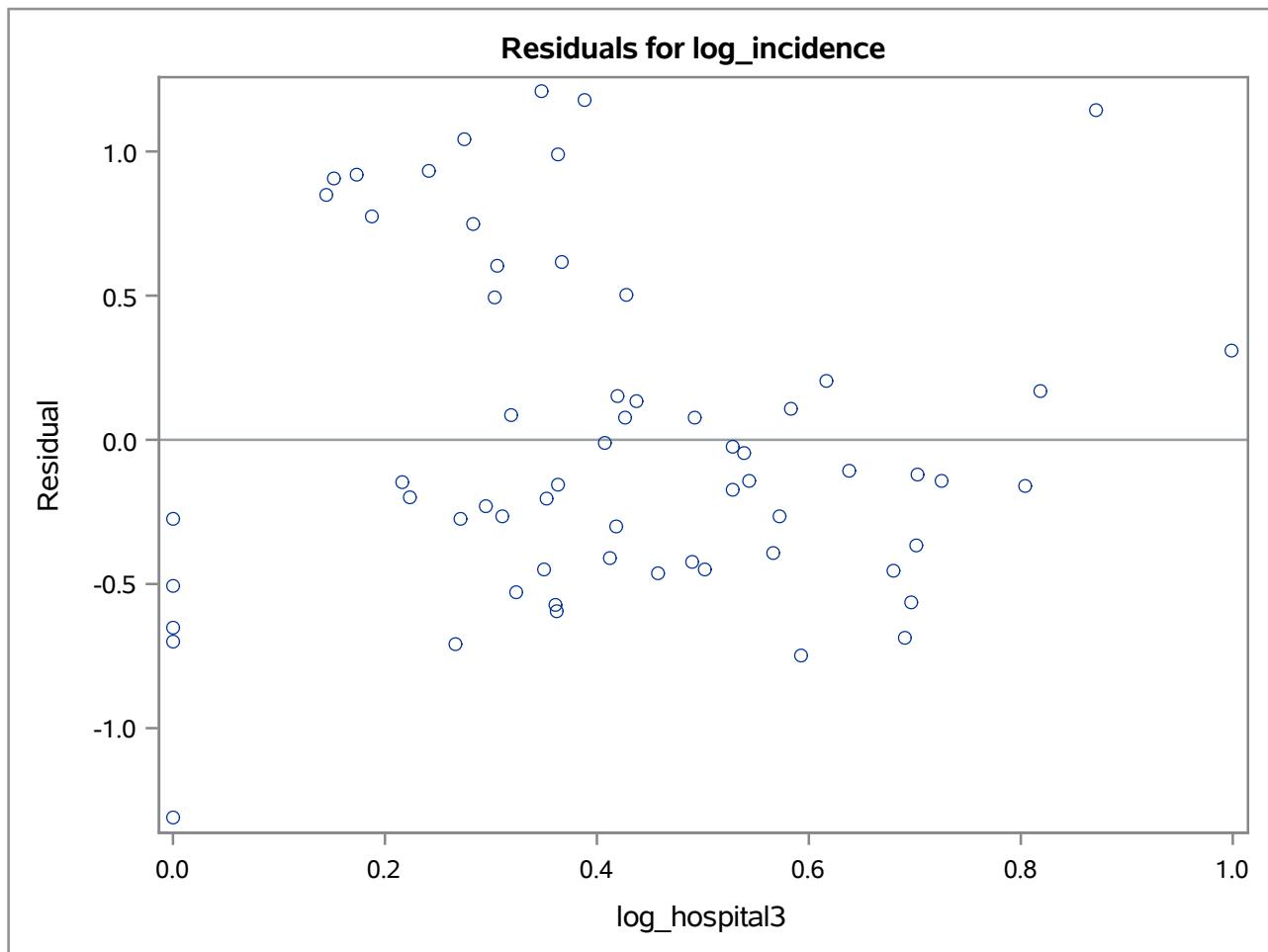
Root MSE	0.57703	R-Square	0.0883
Dependent Mean	-2.80151	Adj R-Sq	0.0731
Coeff Var	-20.59723		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.46801	0.15658	-15.76	<.0001
log_hospital3	1	-0.80040	0.33208	-2.41	0.0190

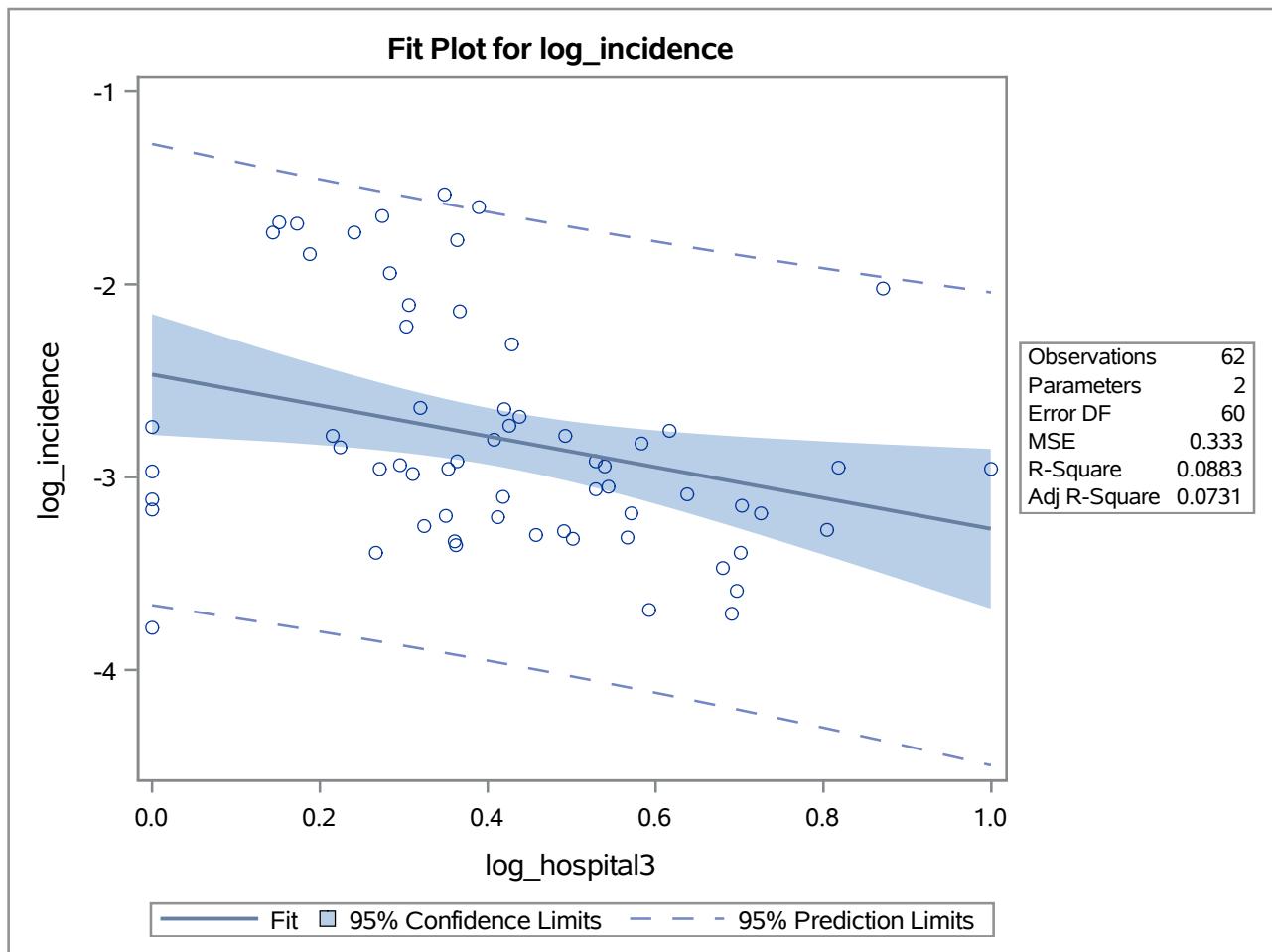
The REG Procedure
Model: MODEL11
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL11
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL11
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

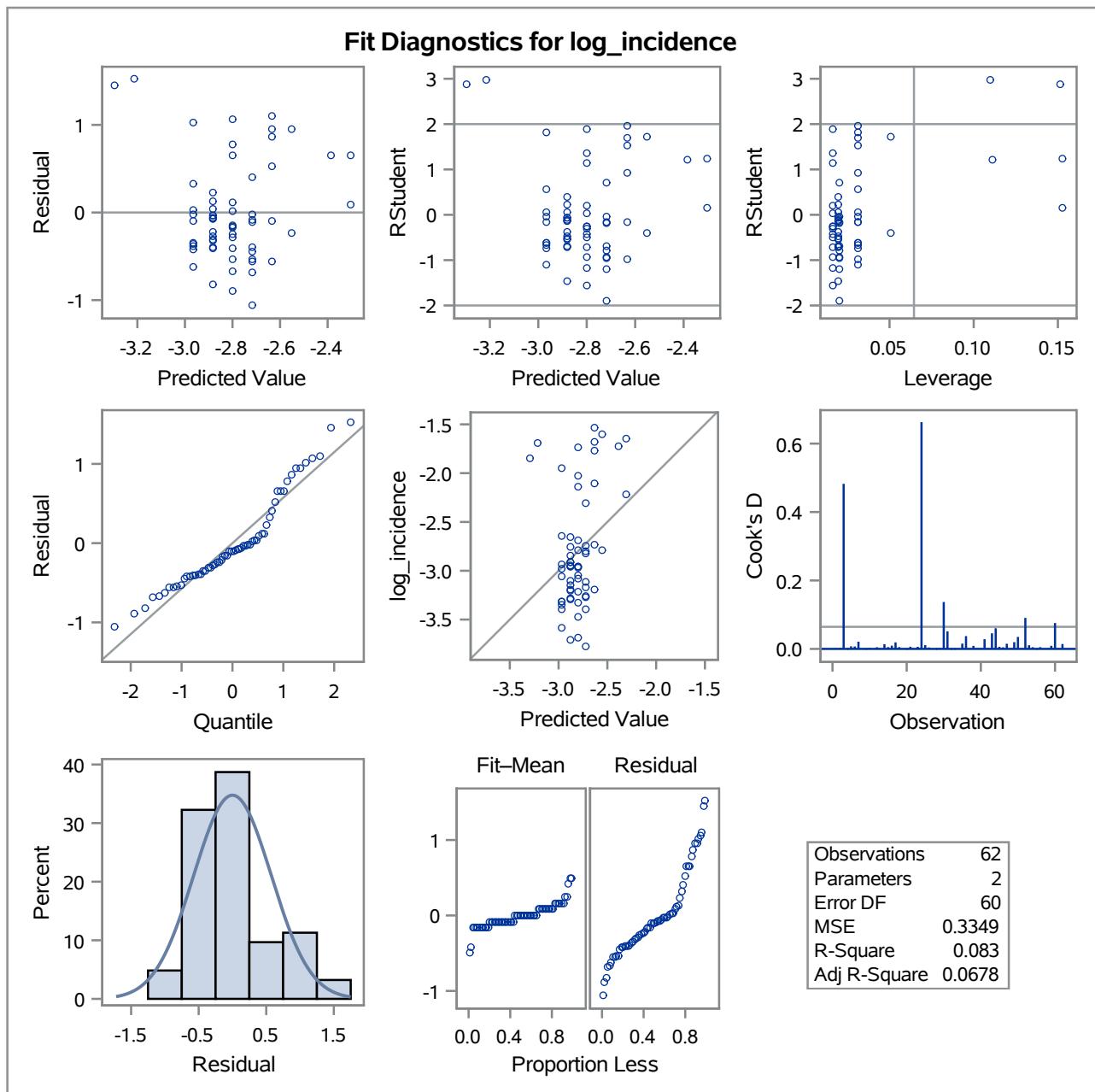
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.81950	1.81950	5.43	0.0231
Error	60	20.09295	0.33488		
Corrected Total	61	21.91246			

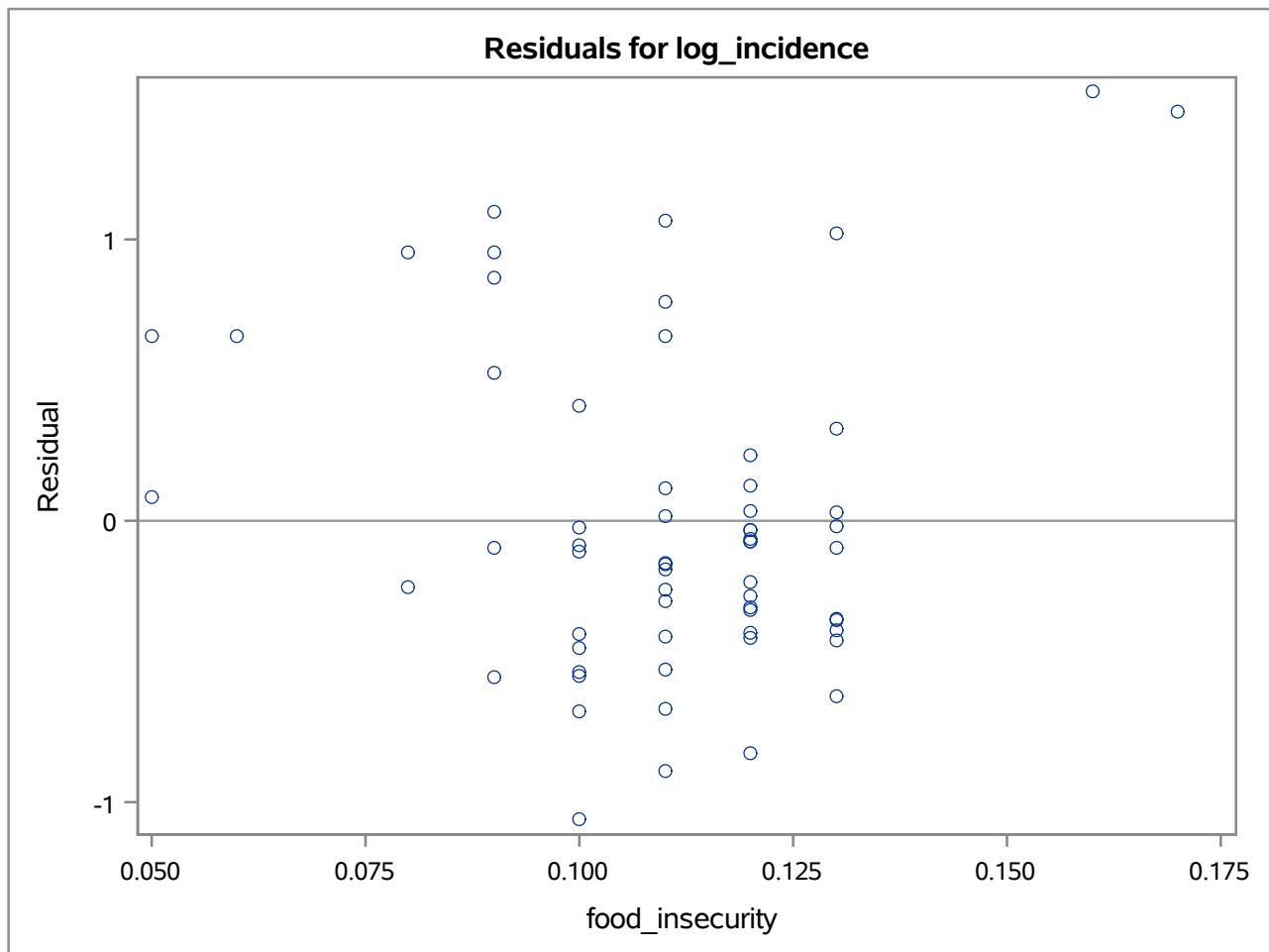
Root MSE	0.57869	R-Square	0.0830
Dependent Mean	-2.80151	Adj R-Sq	0.0678
Coeff Var	-20.65634		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.88867	0.39846	-4.74	<.0001
food_insecurity	1	-8.28642	3.55497	-2.33	0.0231

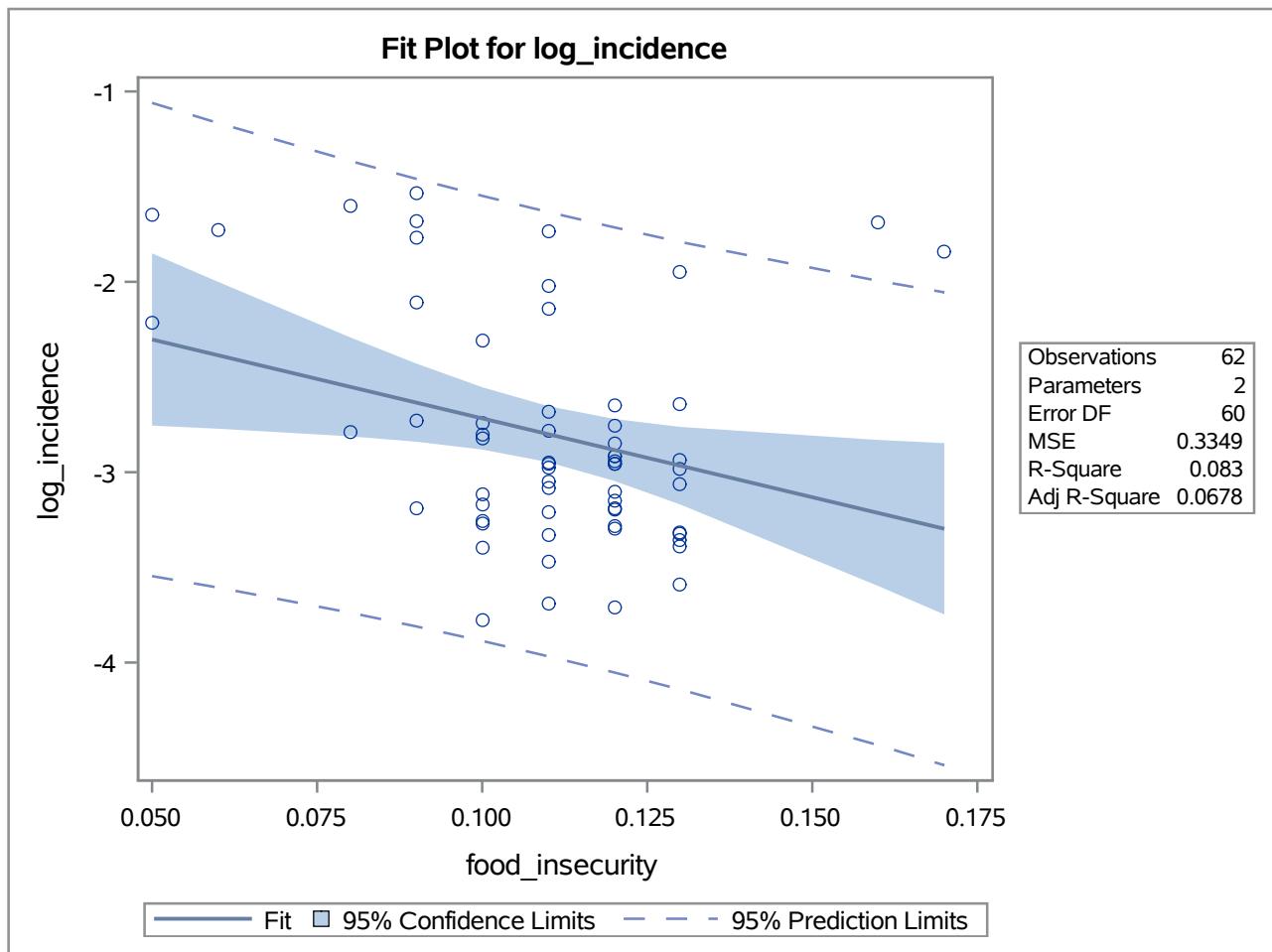
The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence

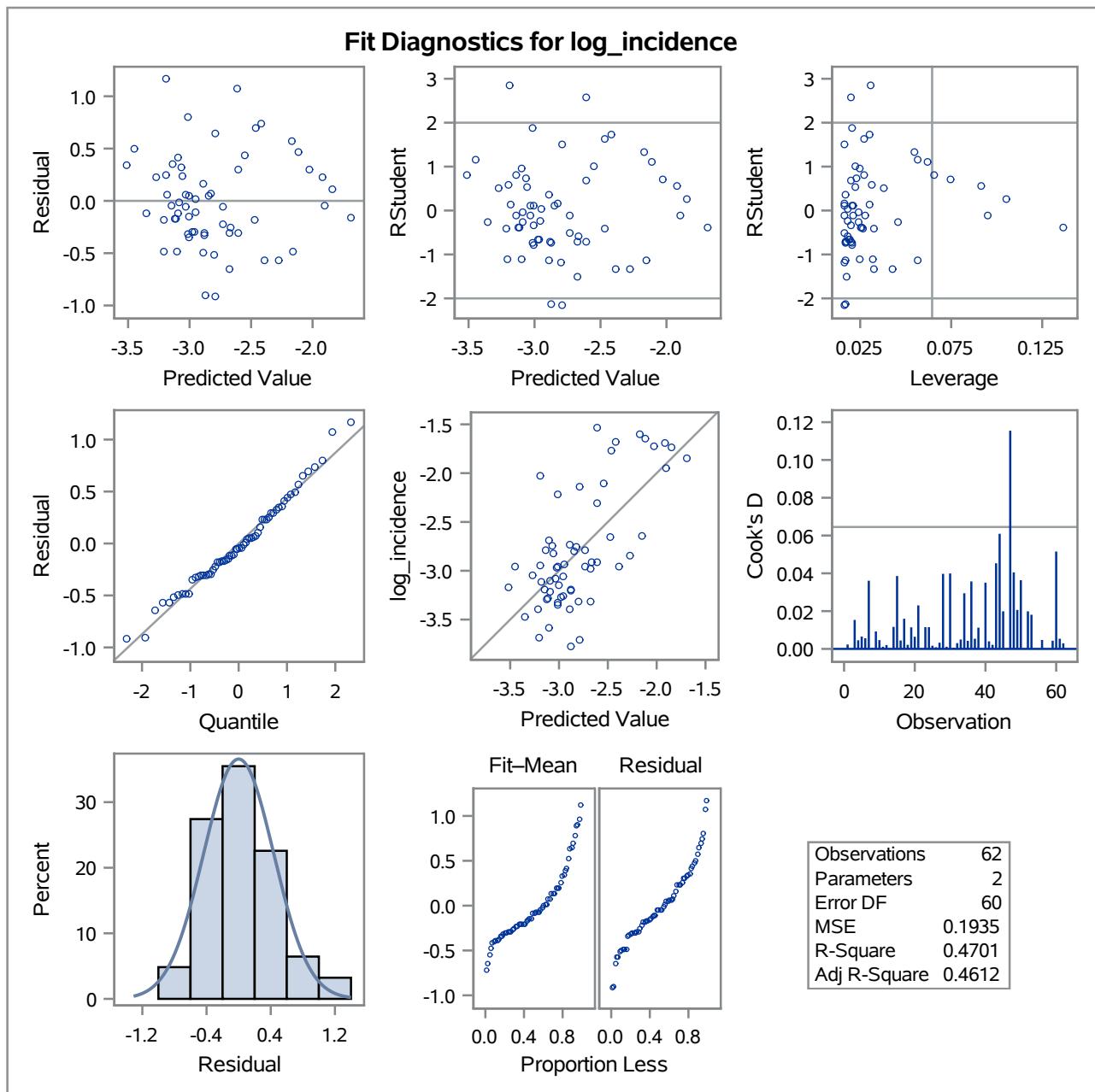
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	10.30040	10.30040	53.22	<.0001
Error	60	11.61205	0.19353		
Corrected Total	61	21.91246			

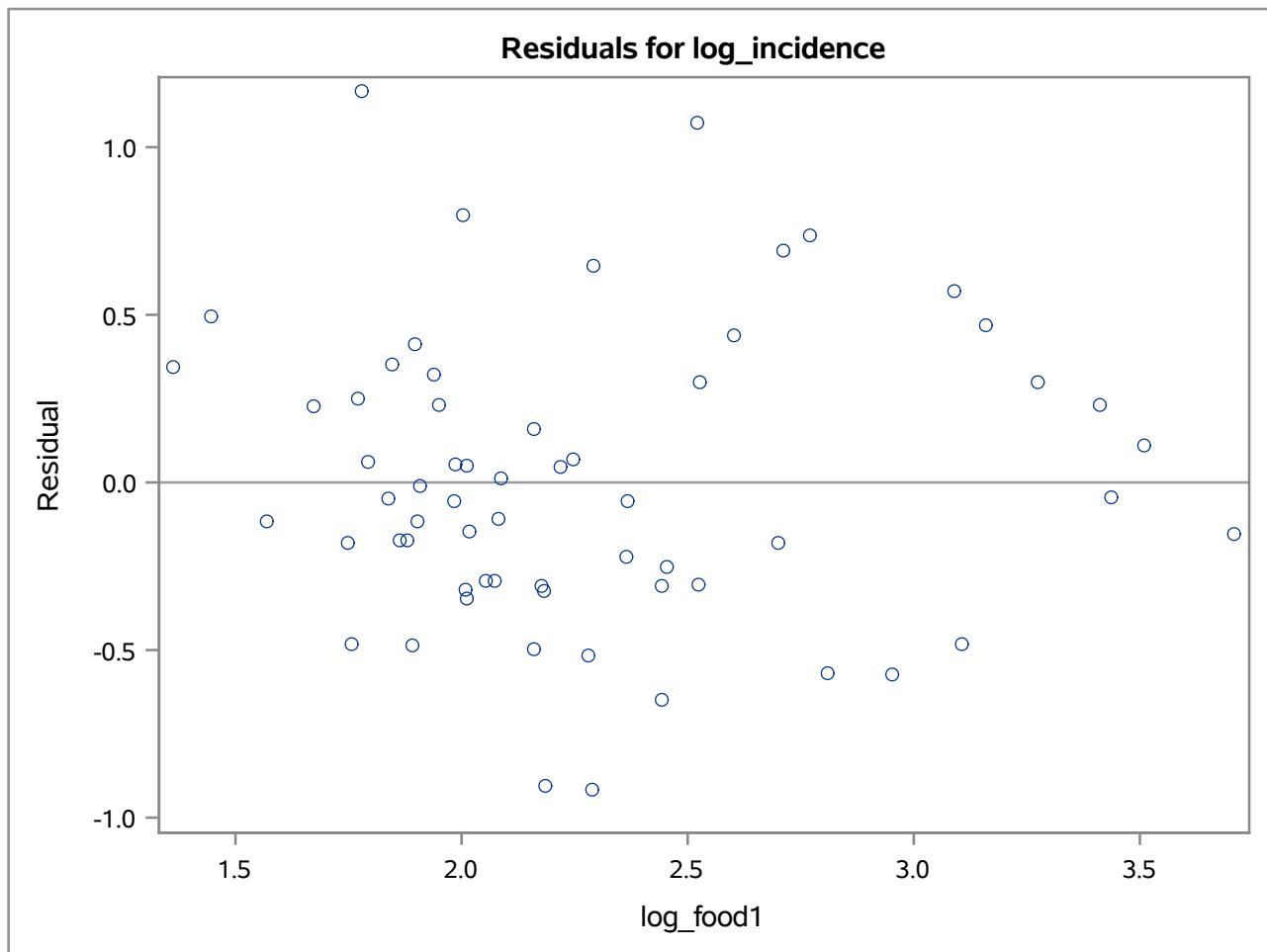
Root MSE	0.43993	R-Square	0.4701
Dependent Mean	-2.80151	Adj R-Sq	0.4612
Coeff Var	-15.70312		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-4.57469	0.24939	-18.34	<.0001
log_food1	1	0.77854	0.10672	7.30	<.0001

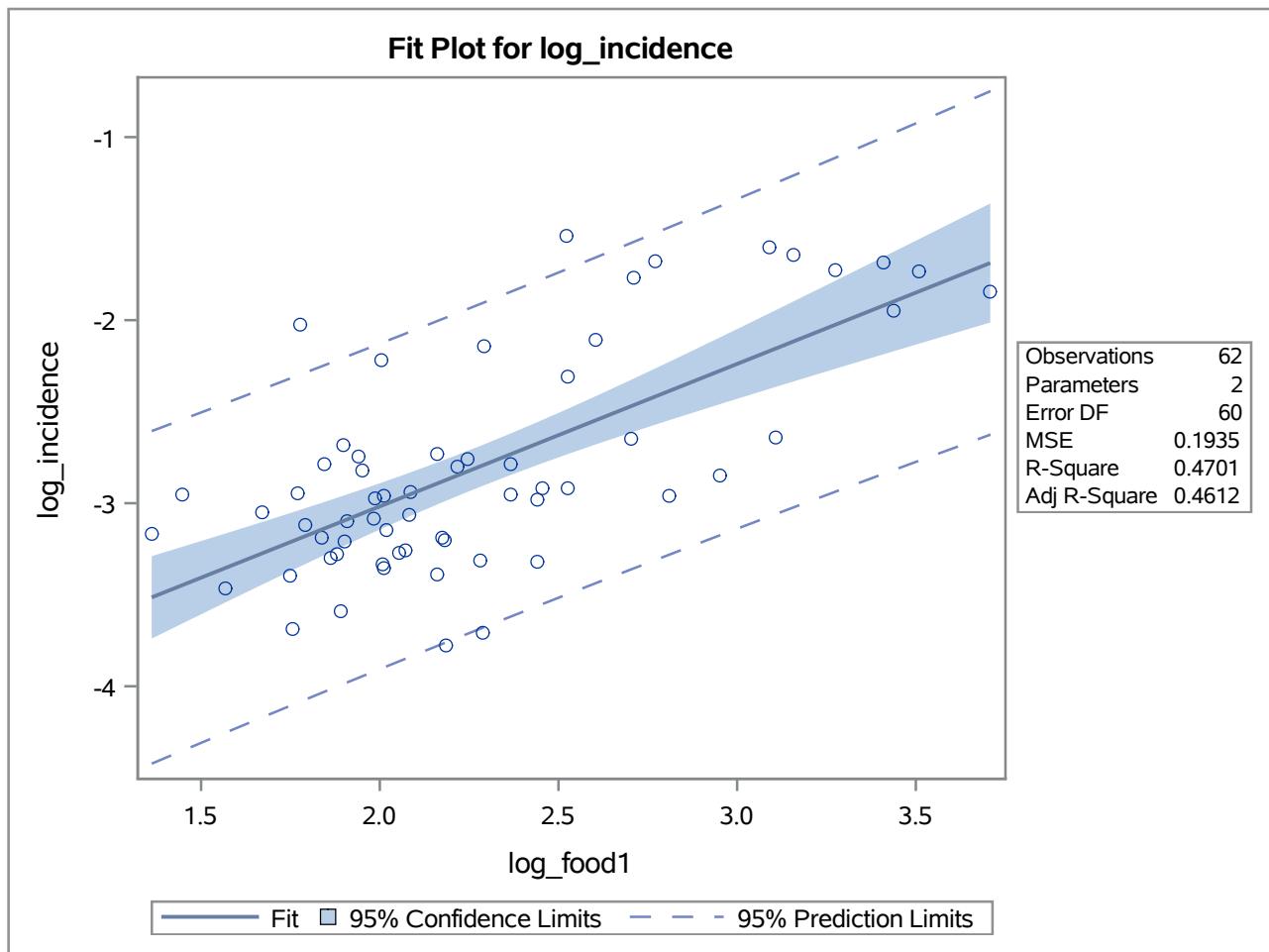
The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL2
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence

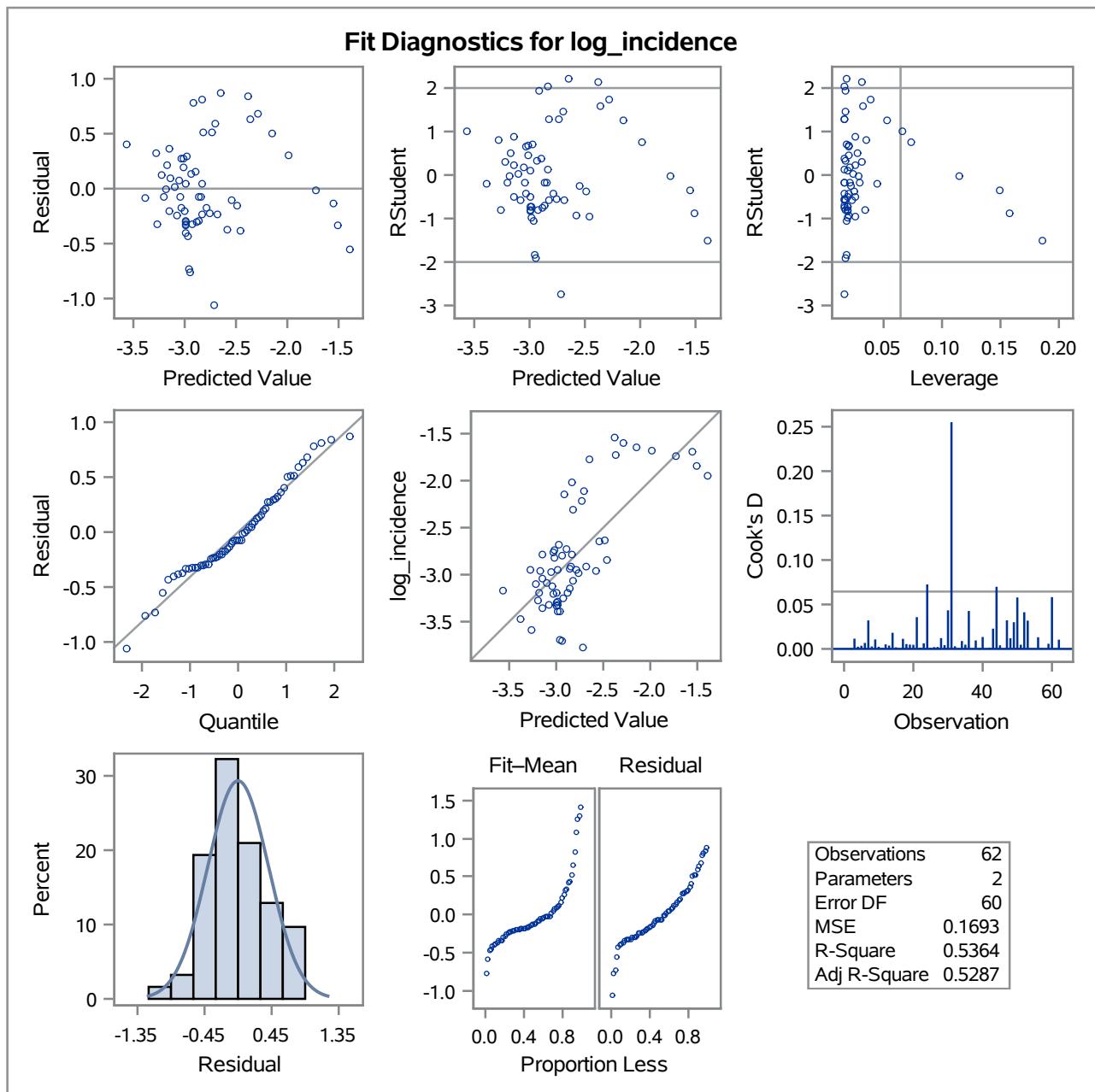
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	11.75463	11.75463	69.43	<.0001
Error	60	10.15783	0.16930		
Corrected Total	61	21.91246			

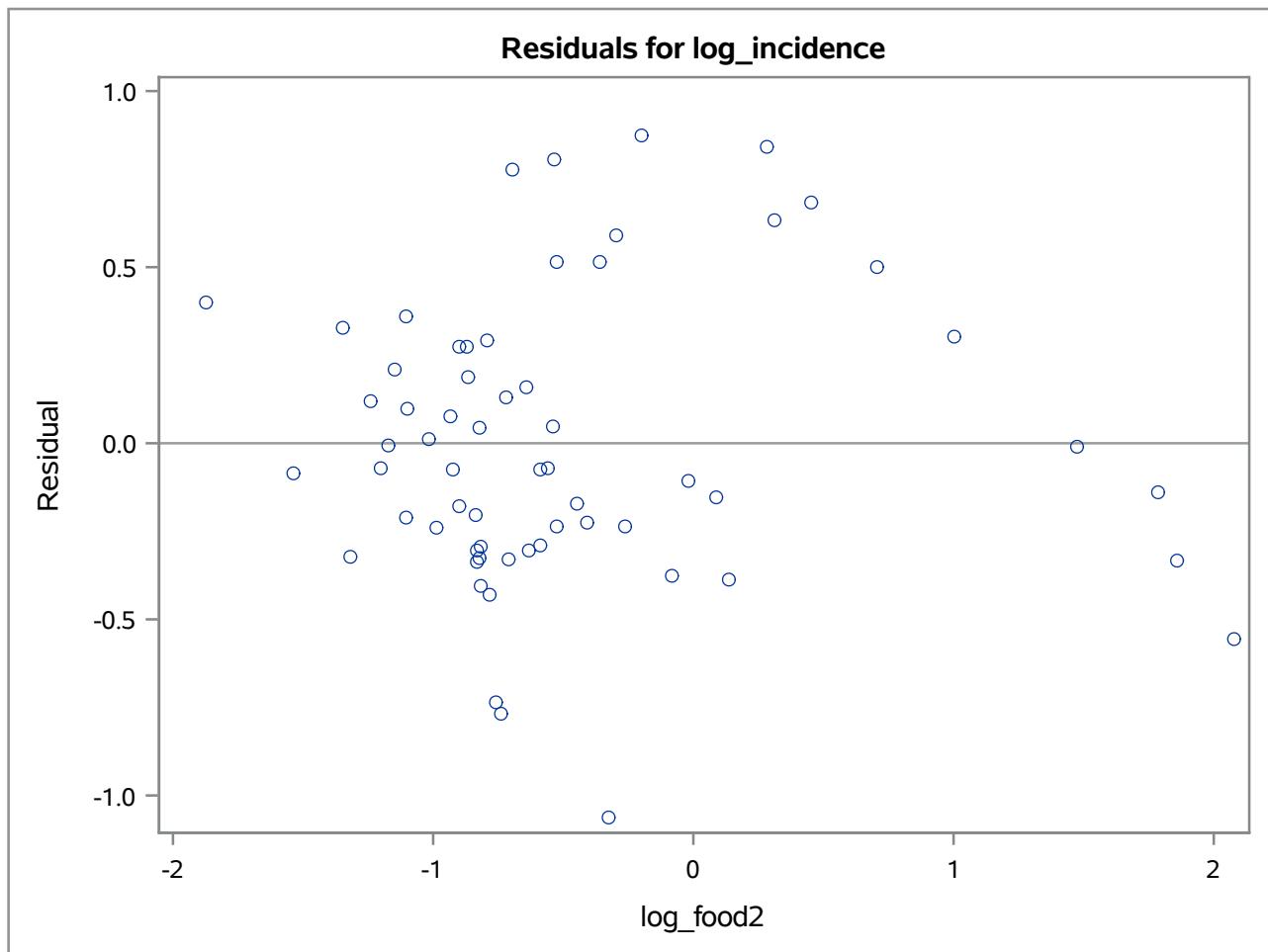
Root MSE	0.41146	R-Square	0.5364
Dependent Mean	-2.80151	Adj R-Sq	0.5287
Coeff Var	-14.68696		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.53587	0.06121	-41.43	<.0001
log_food2	1	0.55146	0.06618	8.33	<.0001

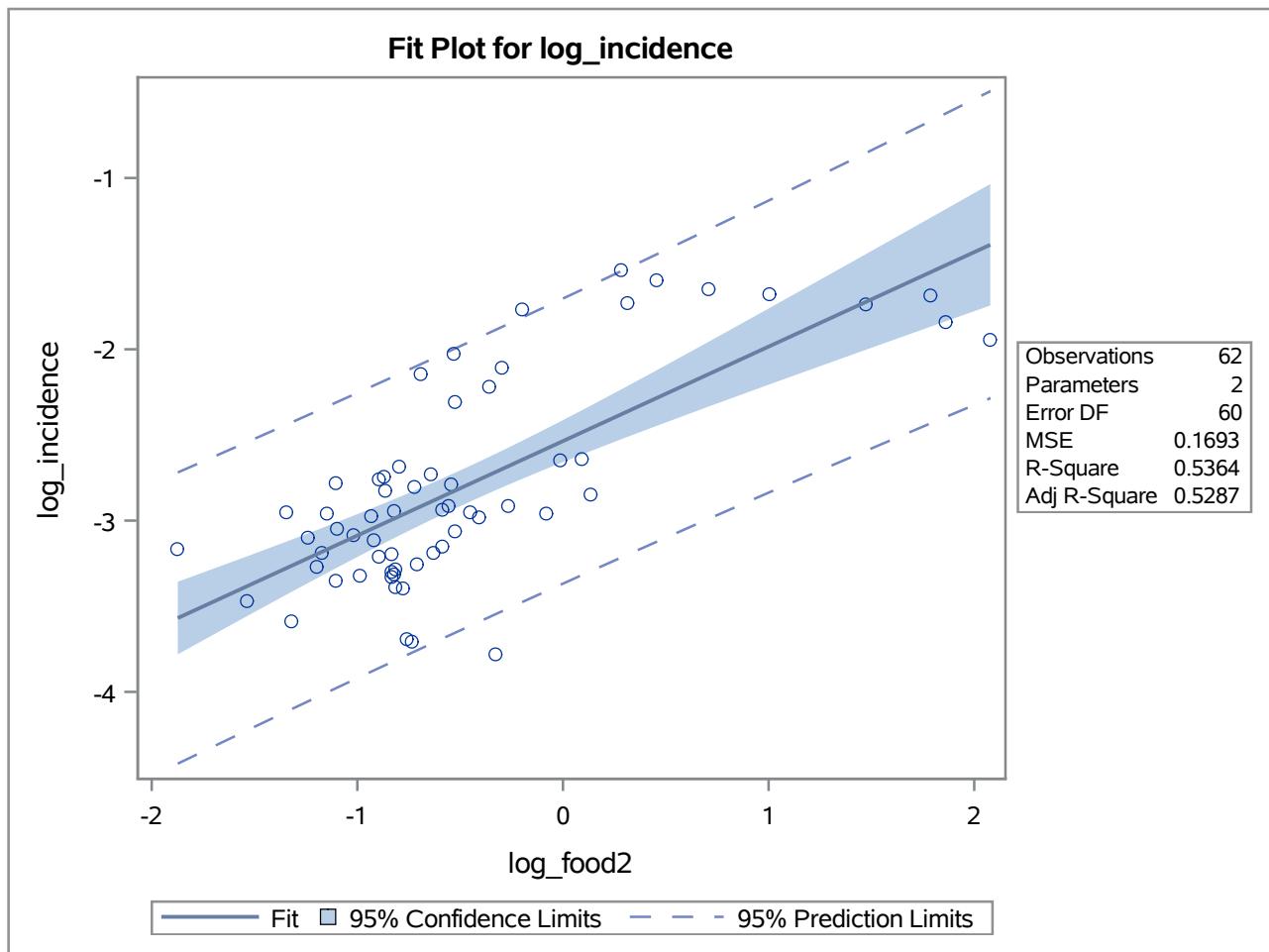
The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL3
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence

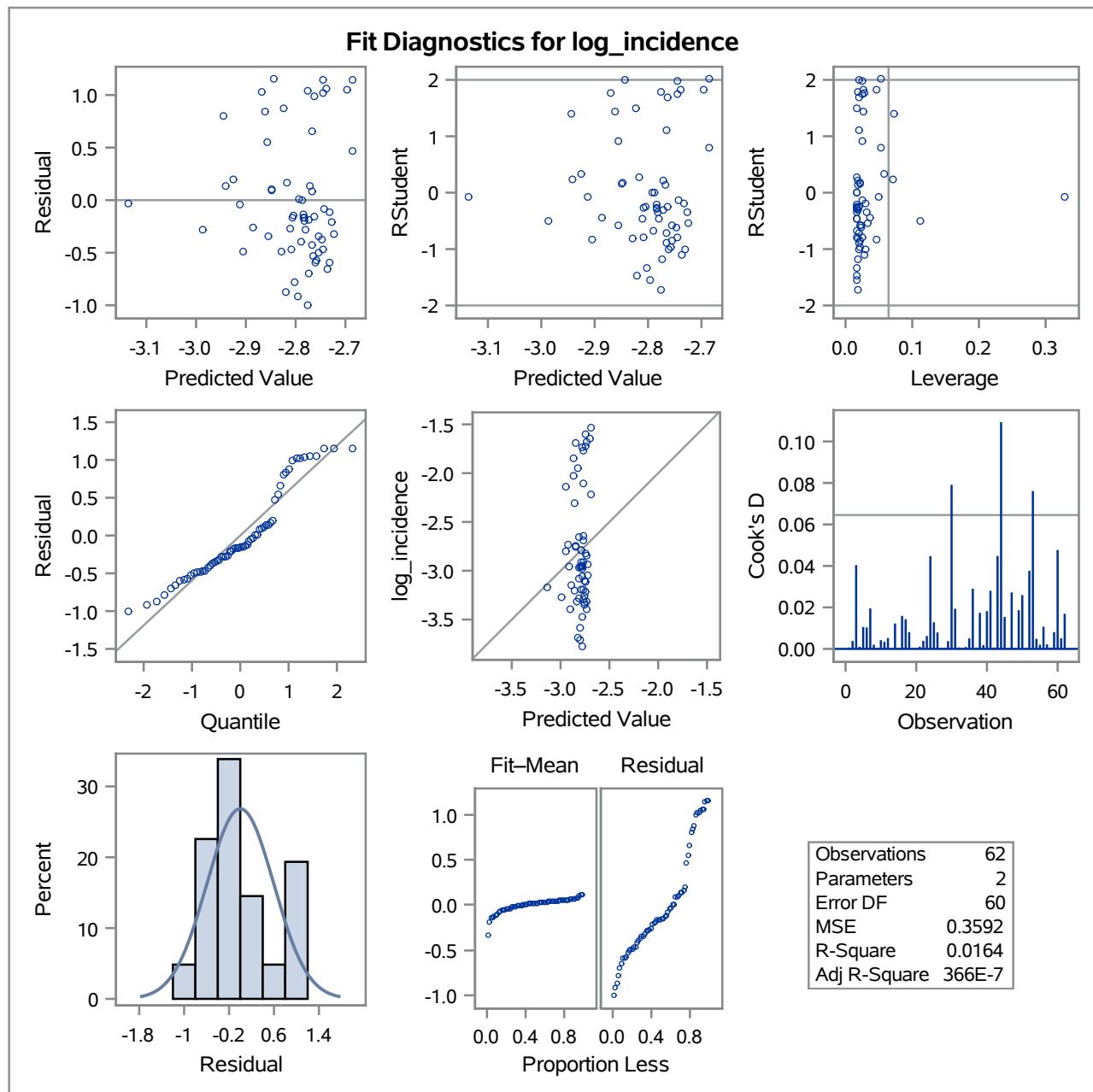
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.36001	0.36001	1.00	0.3208
Error	60	21.55245	0.35921		
Corrected Total	61	21.91246			

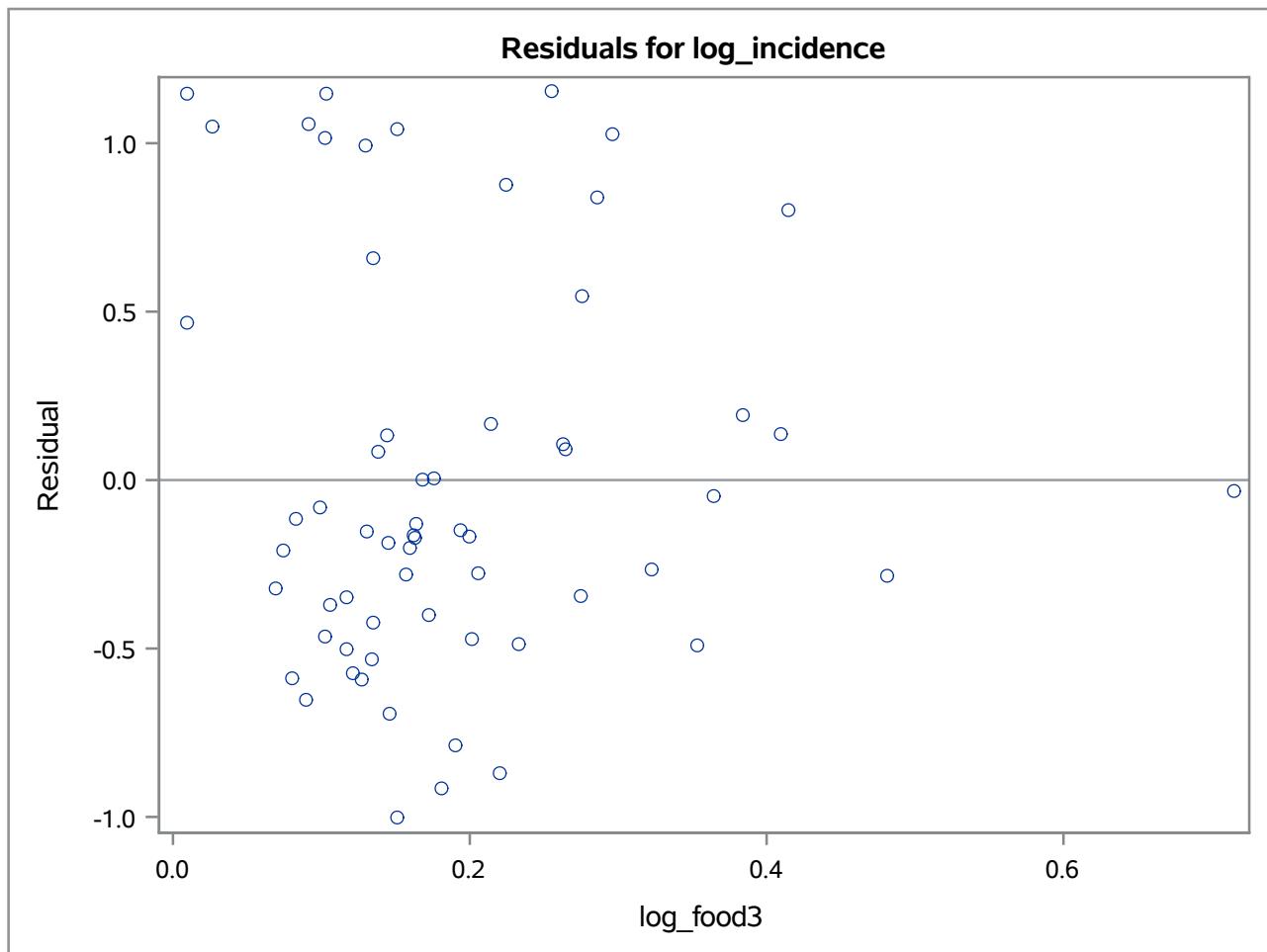
Root MSE	0.59934	R-Square	0.0164
Dependent Mean	-2.80151	Adj R-Sq	0.0000
Coeff Var	-21.39340		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.67963	0.14358	-18.66	<.0001
log_food3	1	-0.63957	0.63886	-1.00	0.3208

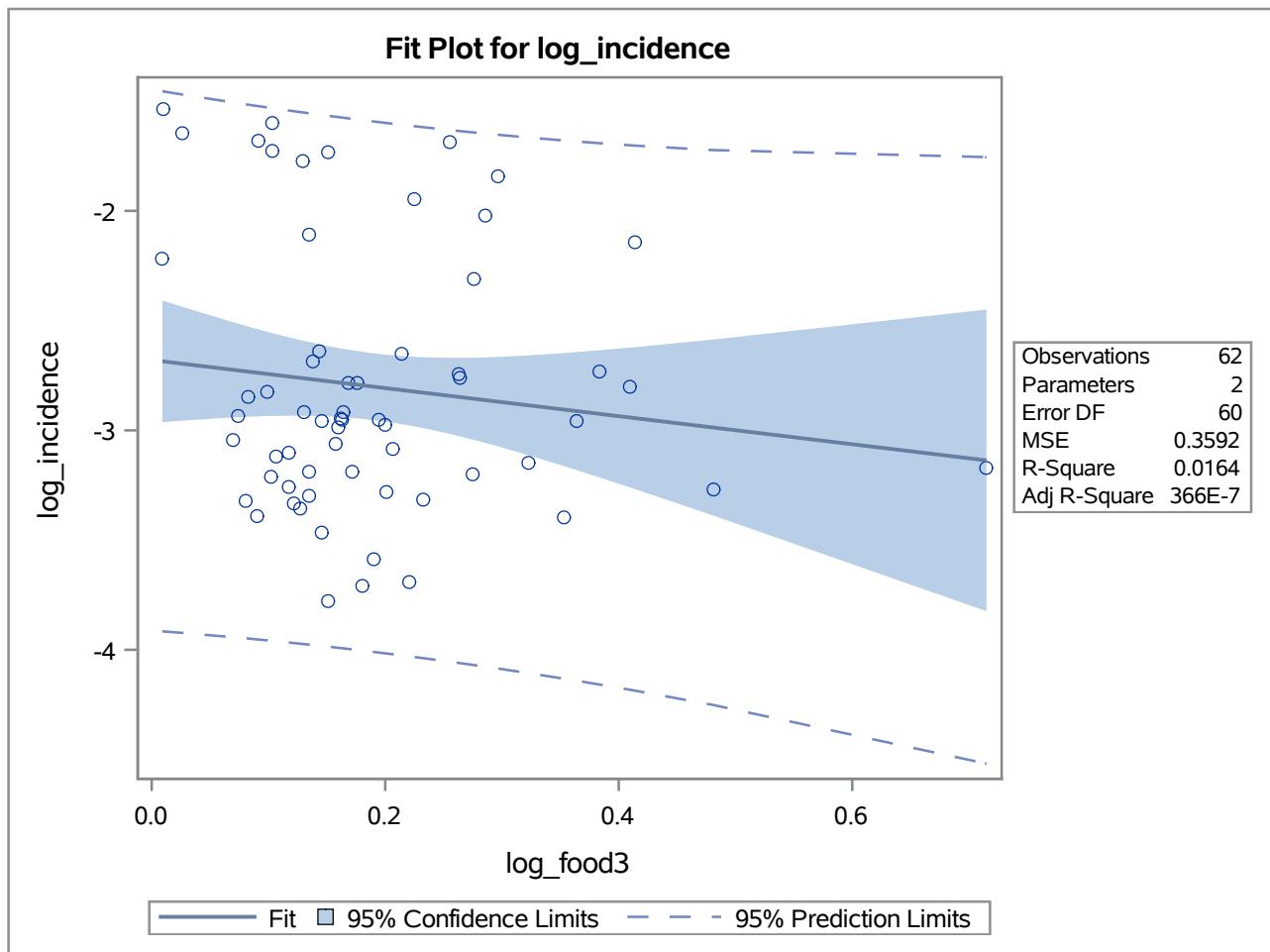
The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL4
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence

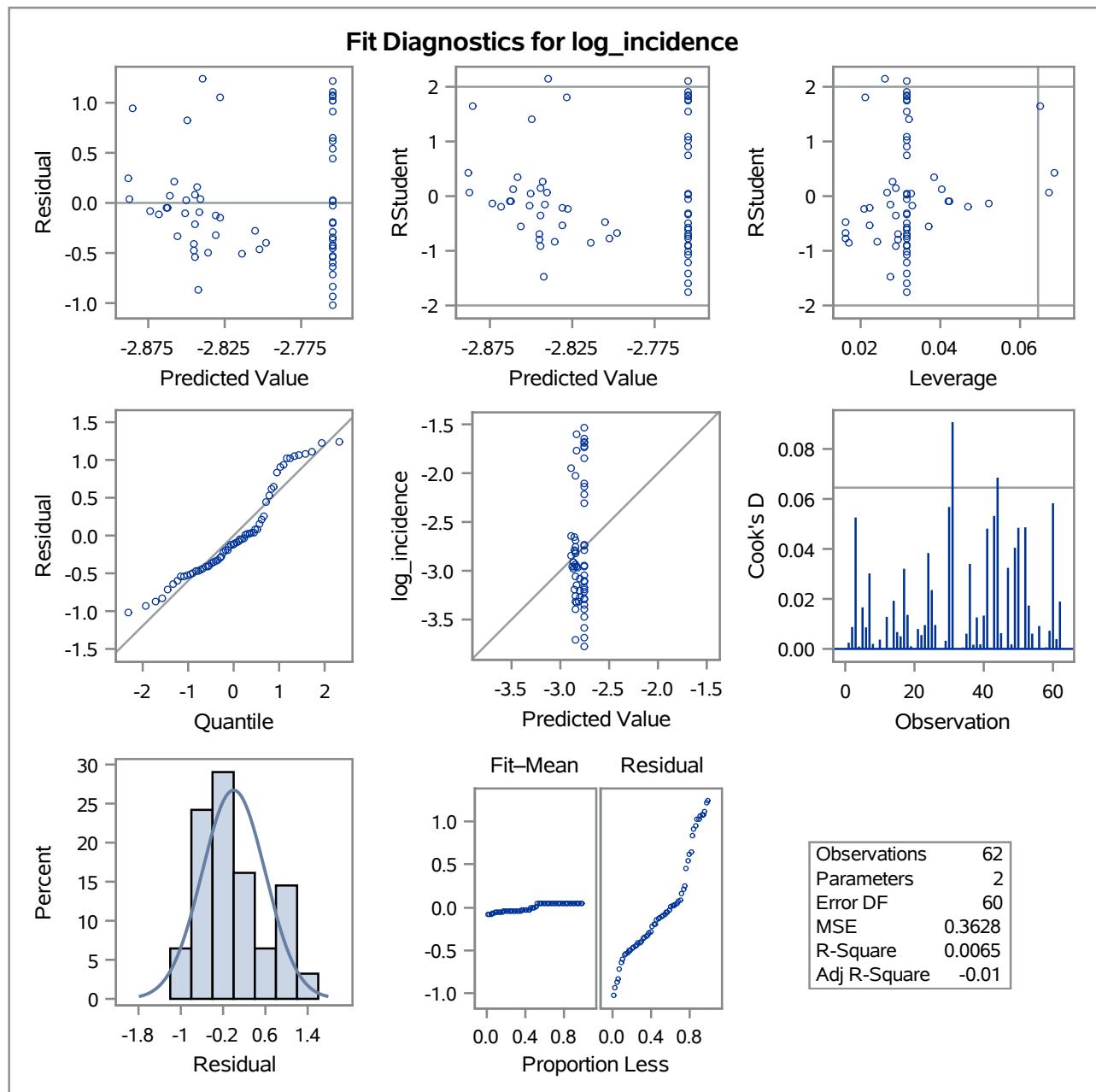
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.14352	0.14352	0.40	0.5318
Error	60	21.76893	0.36282		
Corrected Total	61	21.91246			

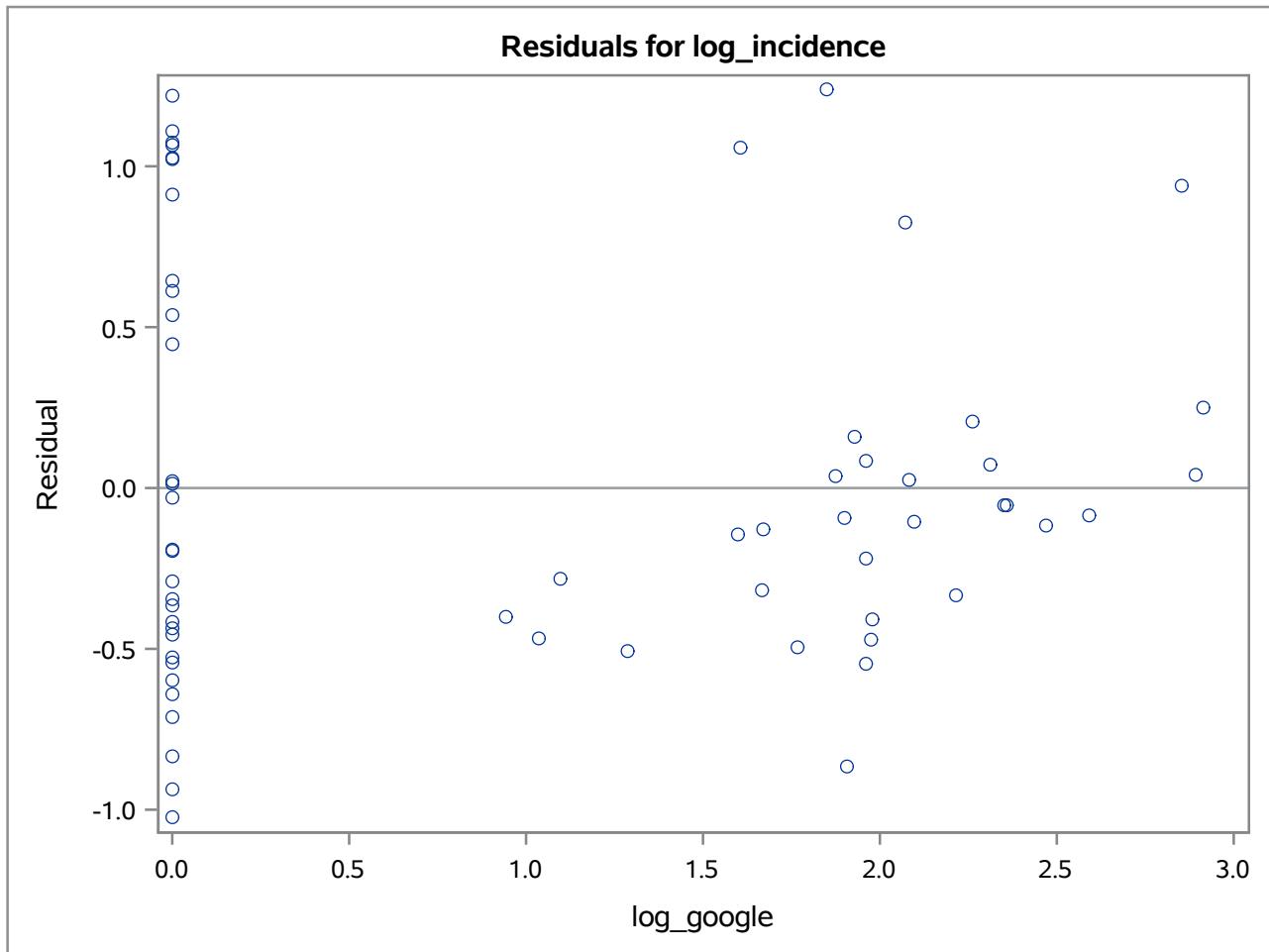
Root MSE	0.60234	R-Square	0.0065
Dependent Mean	-2.80151	Adj R-Sq	-0.0100
Coeff Var	-21.50058		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.75460	0.10684	-25.78	<.0001
log_google	1	-0.04585	0.07290	-0.63	0.5318

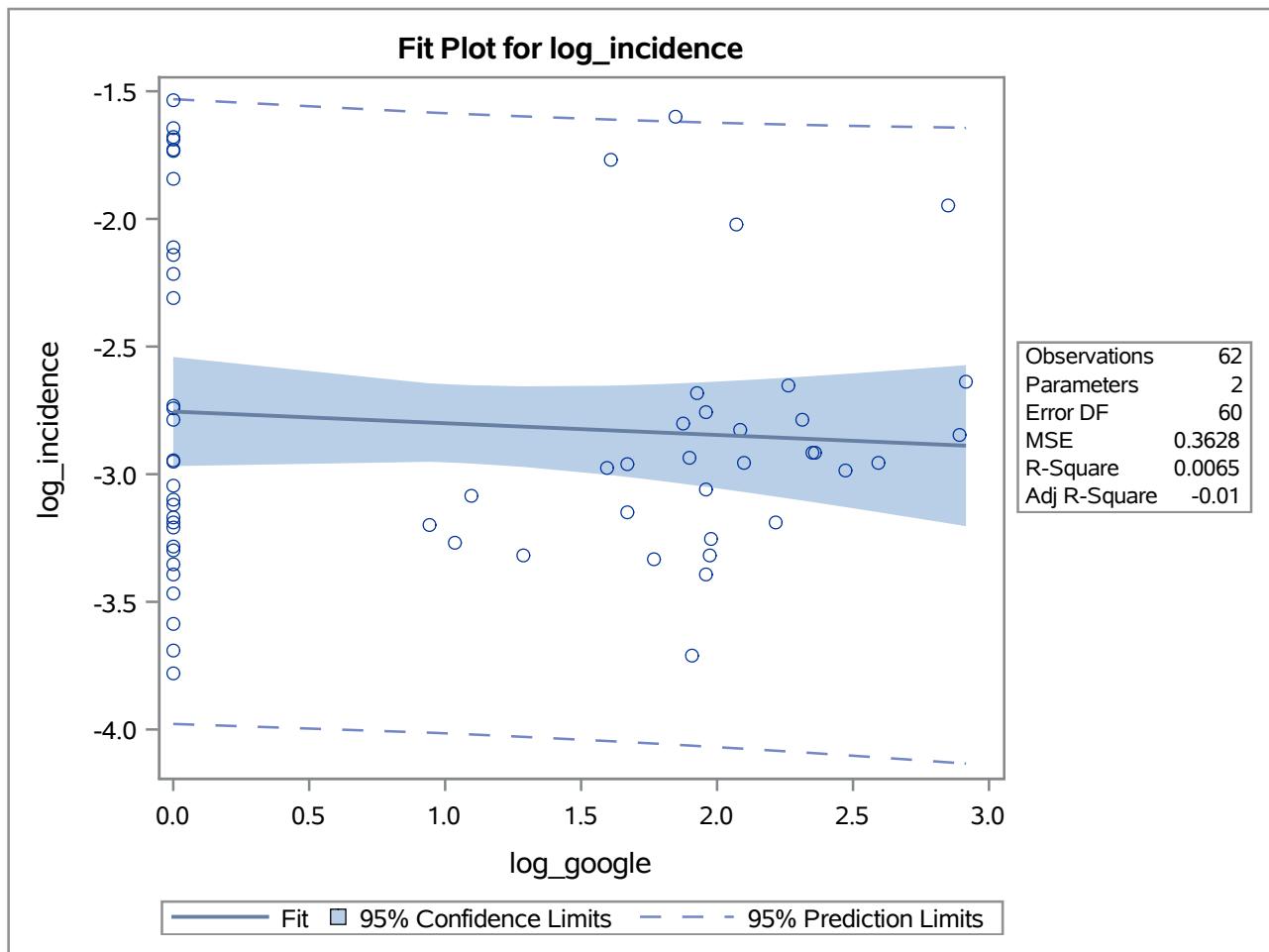
The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence



The REG Procedure Model: MODEL5



The REG Procedure
Model: MODEL5
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence

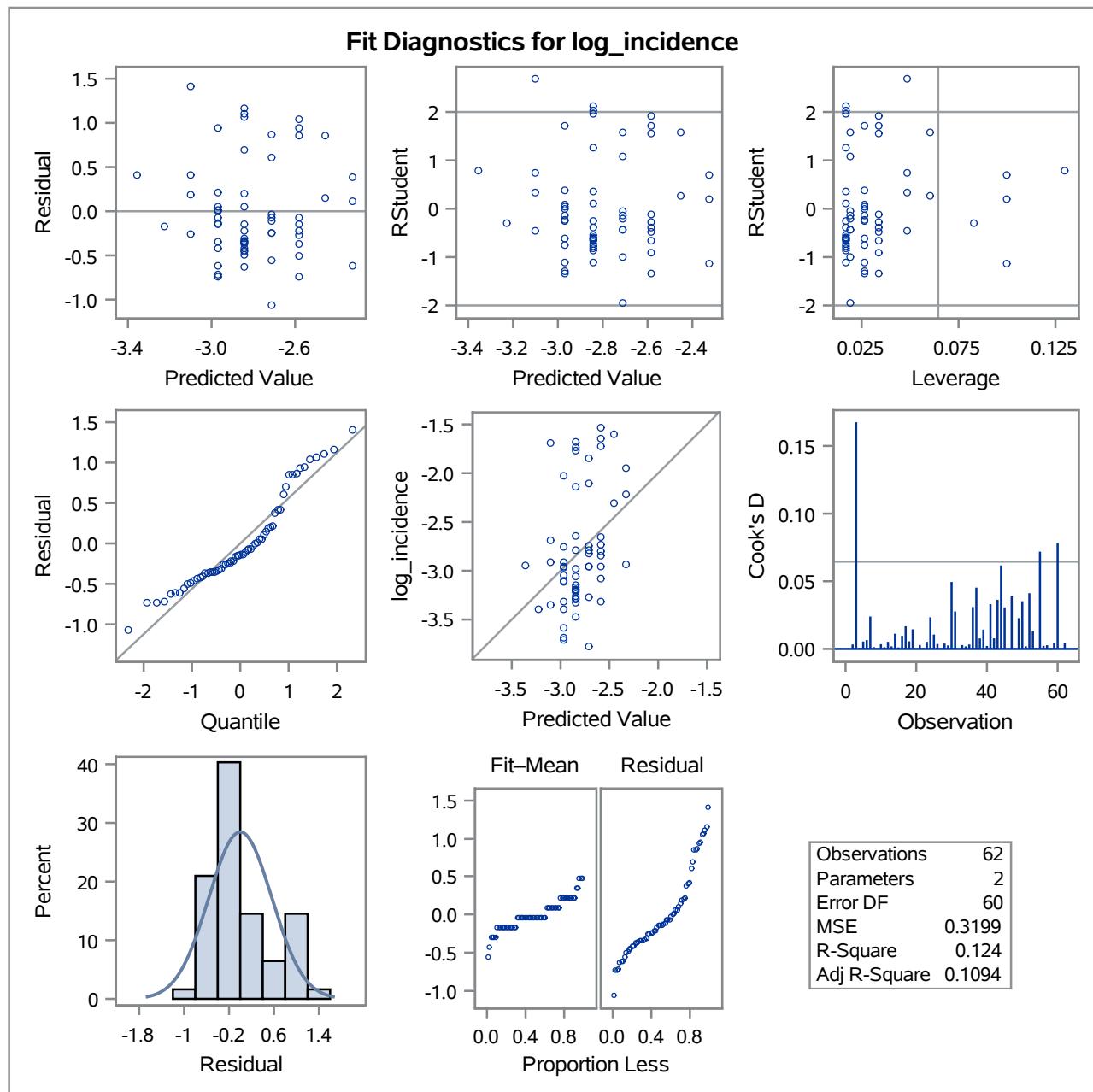
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.71624	2.71624	8.49	0.0050
Error	60	19.19622	0.31994		
Corrected Total	61	21.91246			

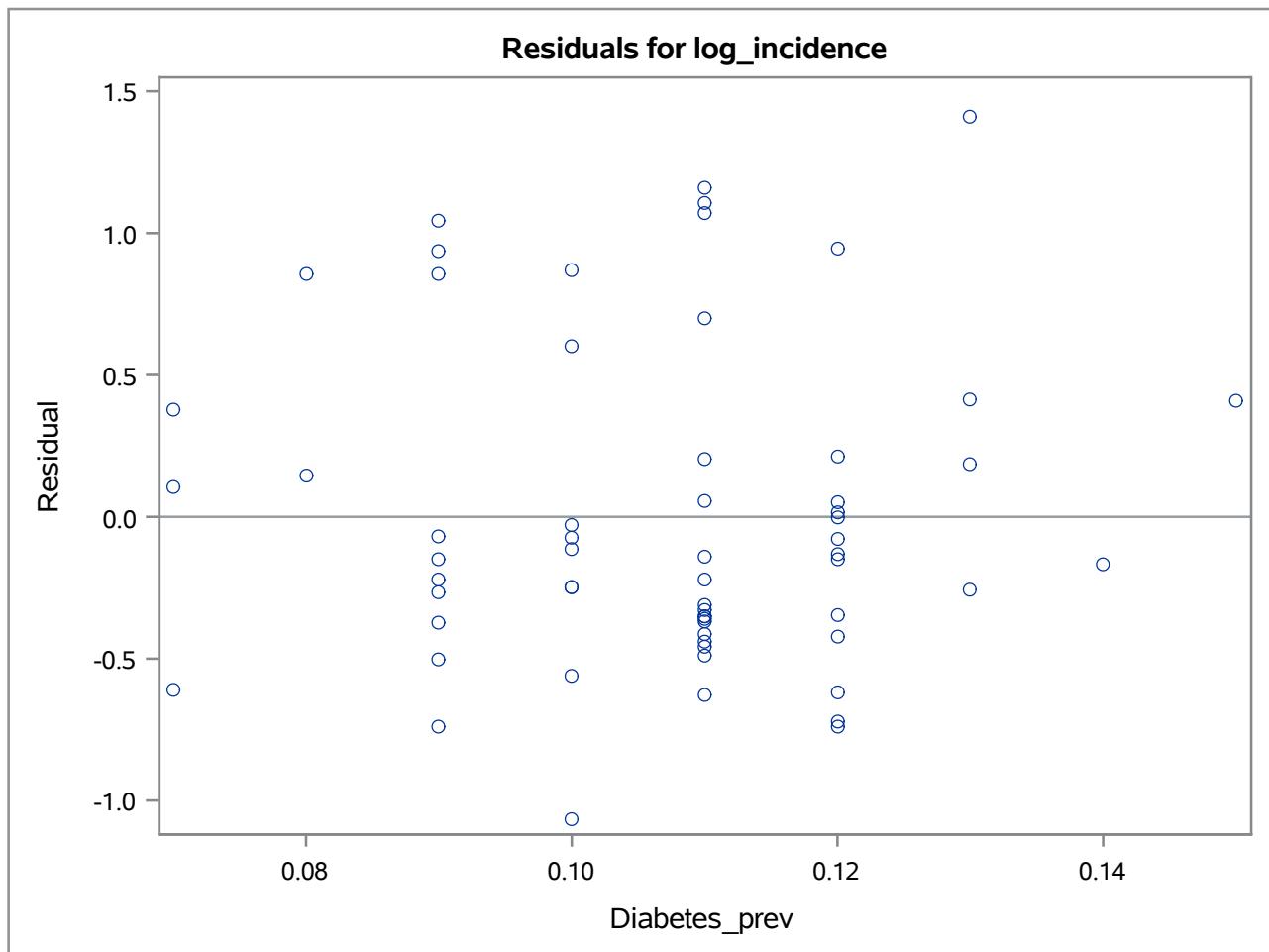
Root MSE	0.56563	R-Square	0.1240
Dependent Mean	-2.80151	Adj R-Sq	0.1094
Coeff Var	-20.19014		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.42184	0.47892	-2.97	0.0043
Diabetes_prev	1	-12.90191	4.42794	-2.91	0.0050

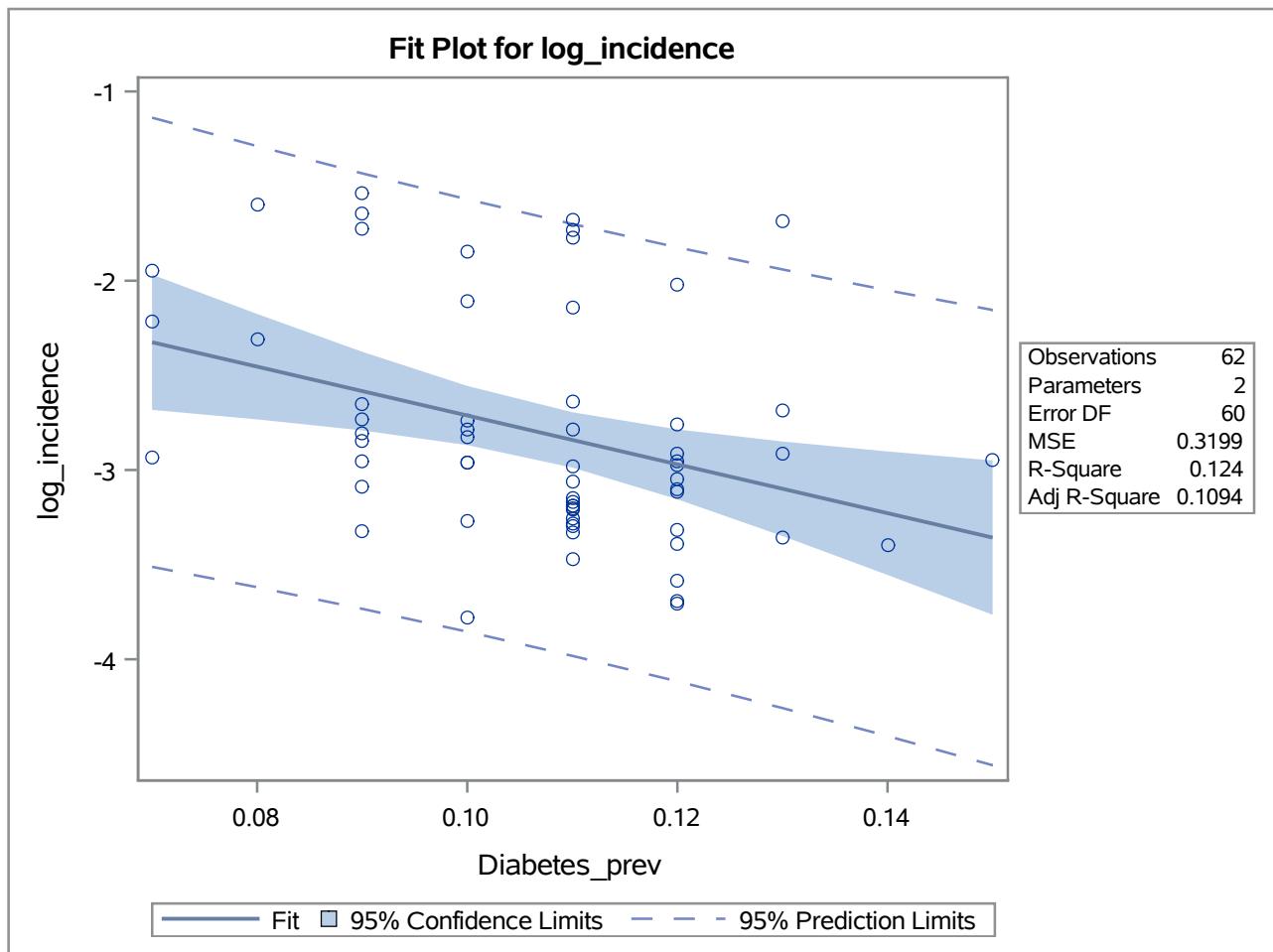
The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL6
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence

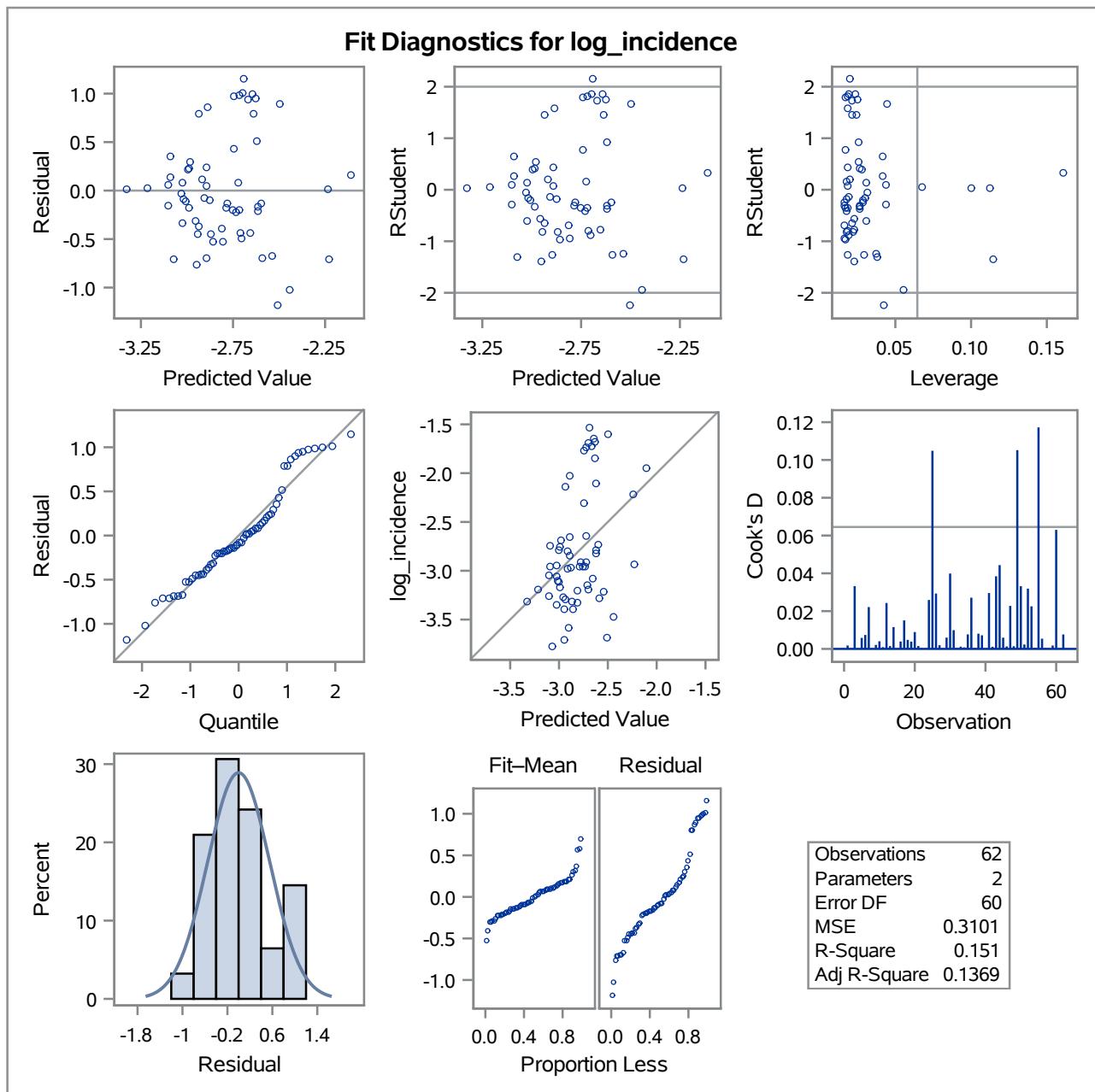
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3.30889	3.30889	10.67	0.0018
Error	60	18.60357	0.31006		
Corrected Total	61	21.91246			

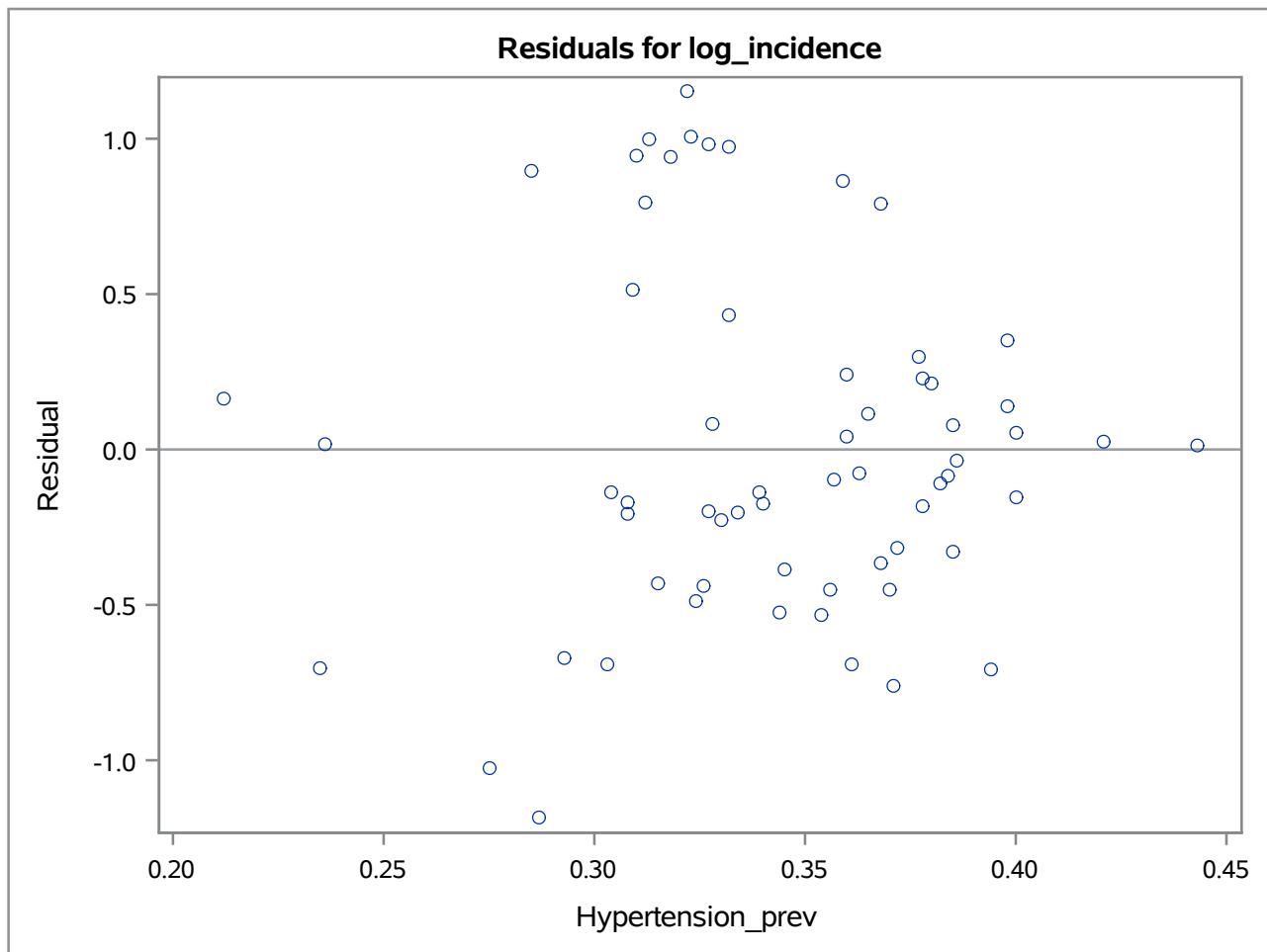
Root MSE	0.55683	R-Square	0.1510
Dependent Mean	-2.80151	Adj R-Sq	0.1369
Coeff Var	-19.87603		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.98994	0.55904	-1.77	0.0817
Hypertension_prev	1	-5.28083	1.61653	-3.27	0.0018

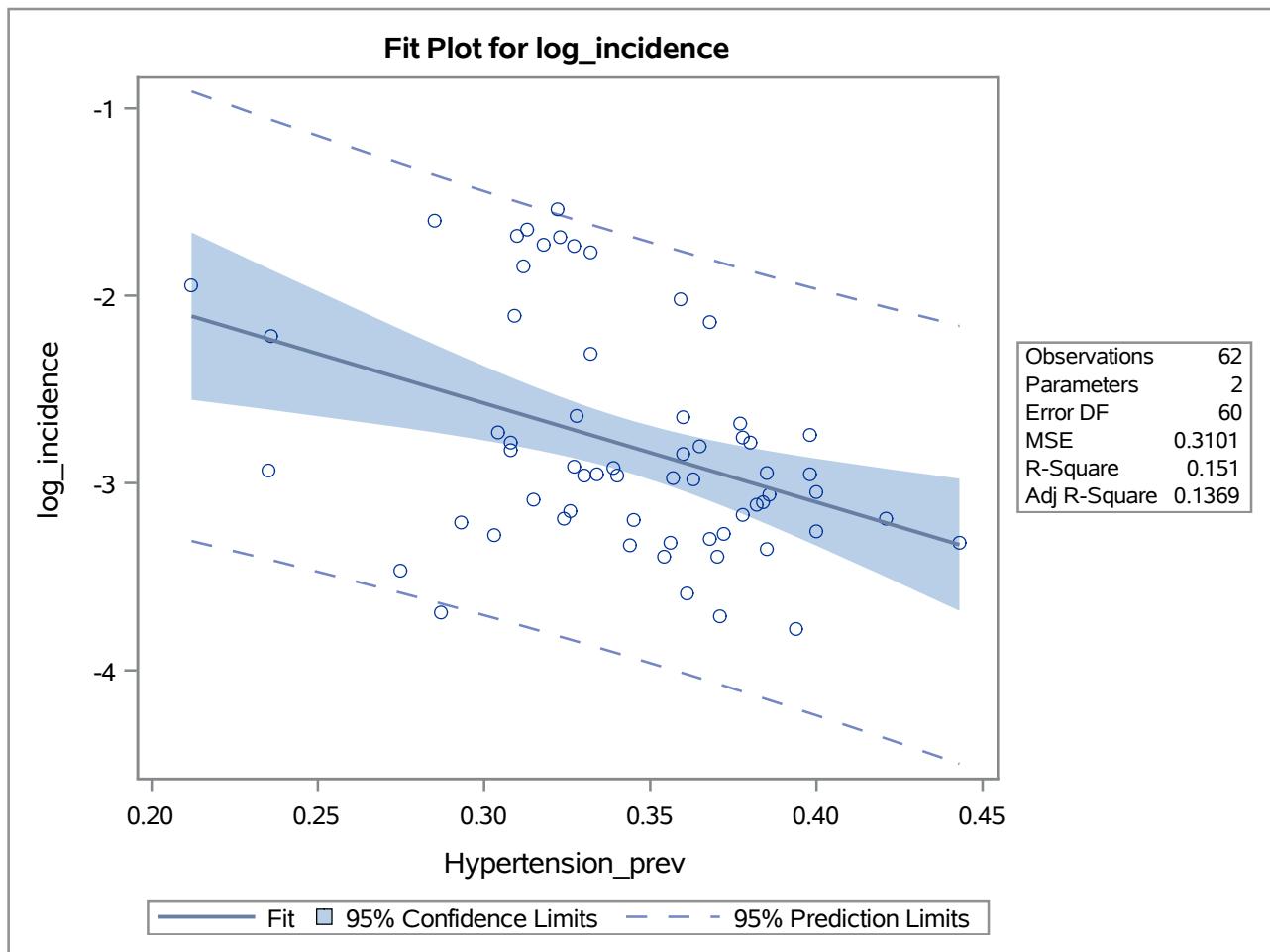
The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL7
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence

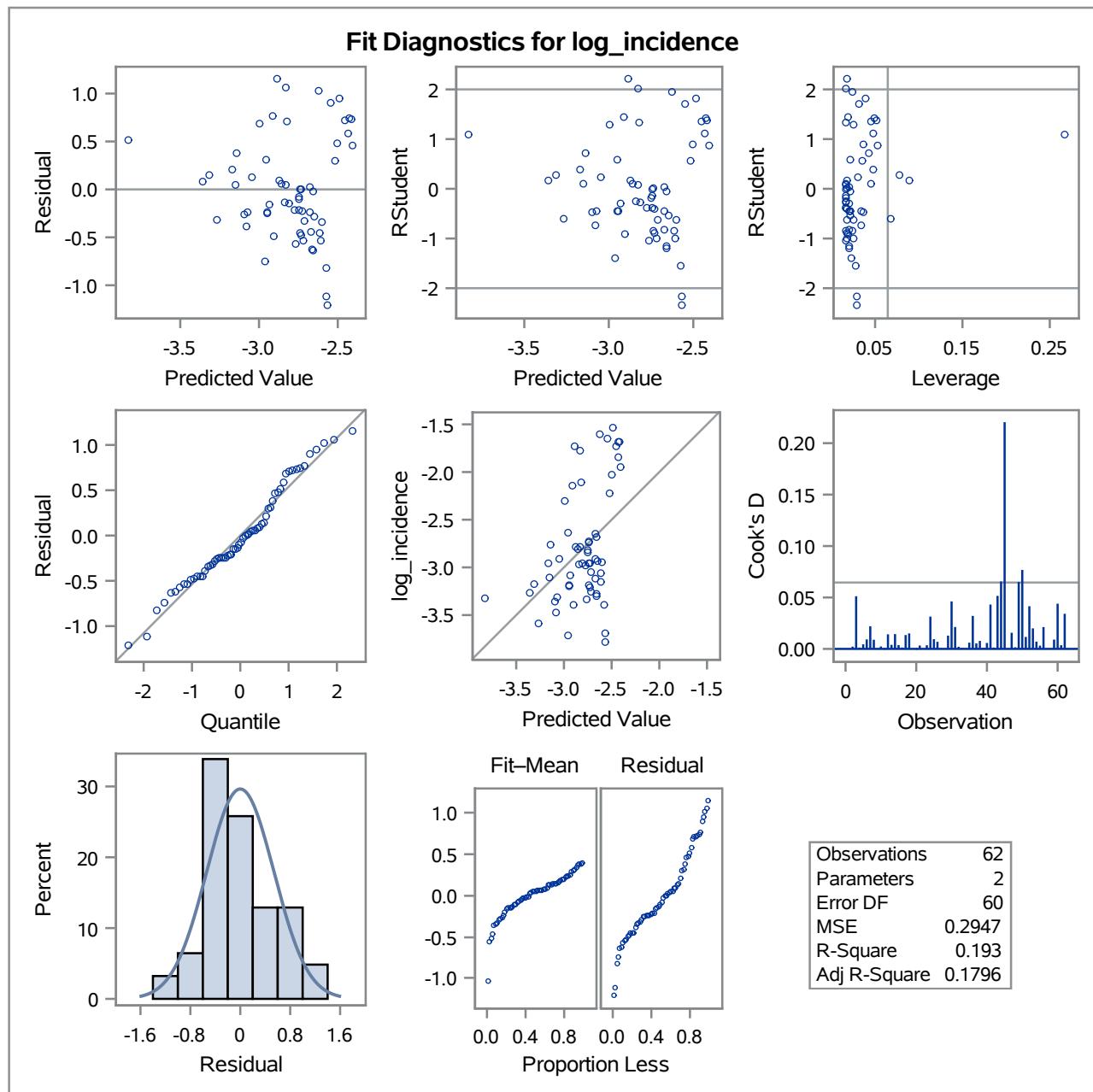
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4.23016	4.23016	14.35	0.0004
Error	60	17.68230	0.29471		
Corrected Total	61	21.91246			

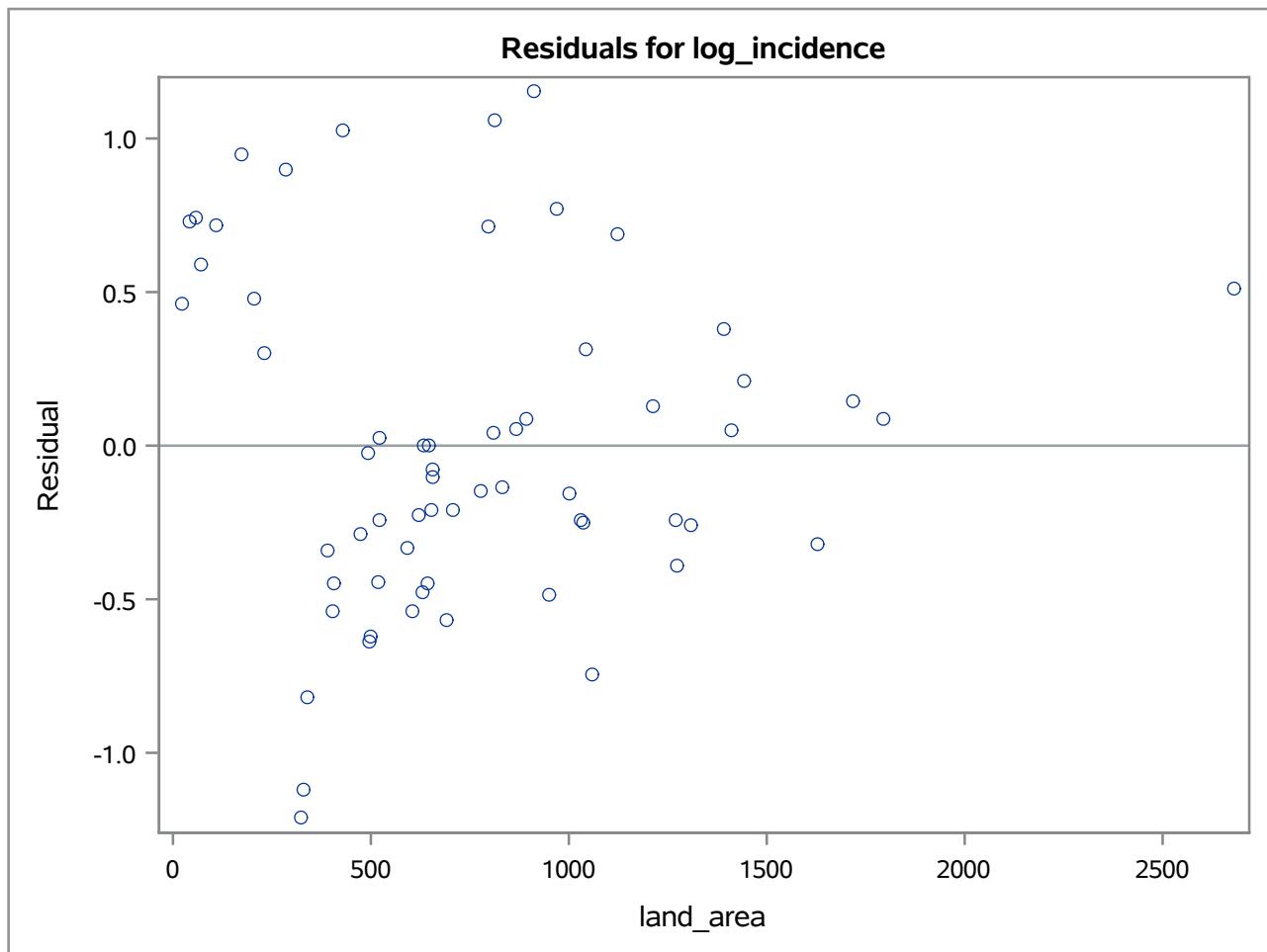
Root MSE	0.54287	R-Square	0.1930
Dependent Mean	-2.80151	Adj R-Sq	0.1796
Coeff Var	-19.37764		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-2.39369	0.12783	-18.73	<.0001
land_area	1	-0.00053654	0.00014162	-3.79	0.0004

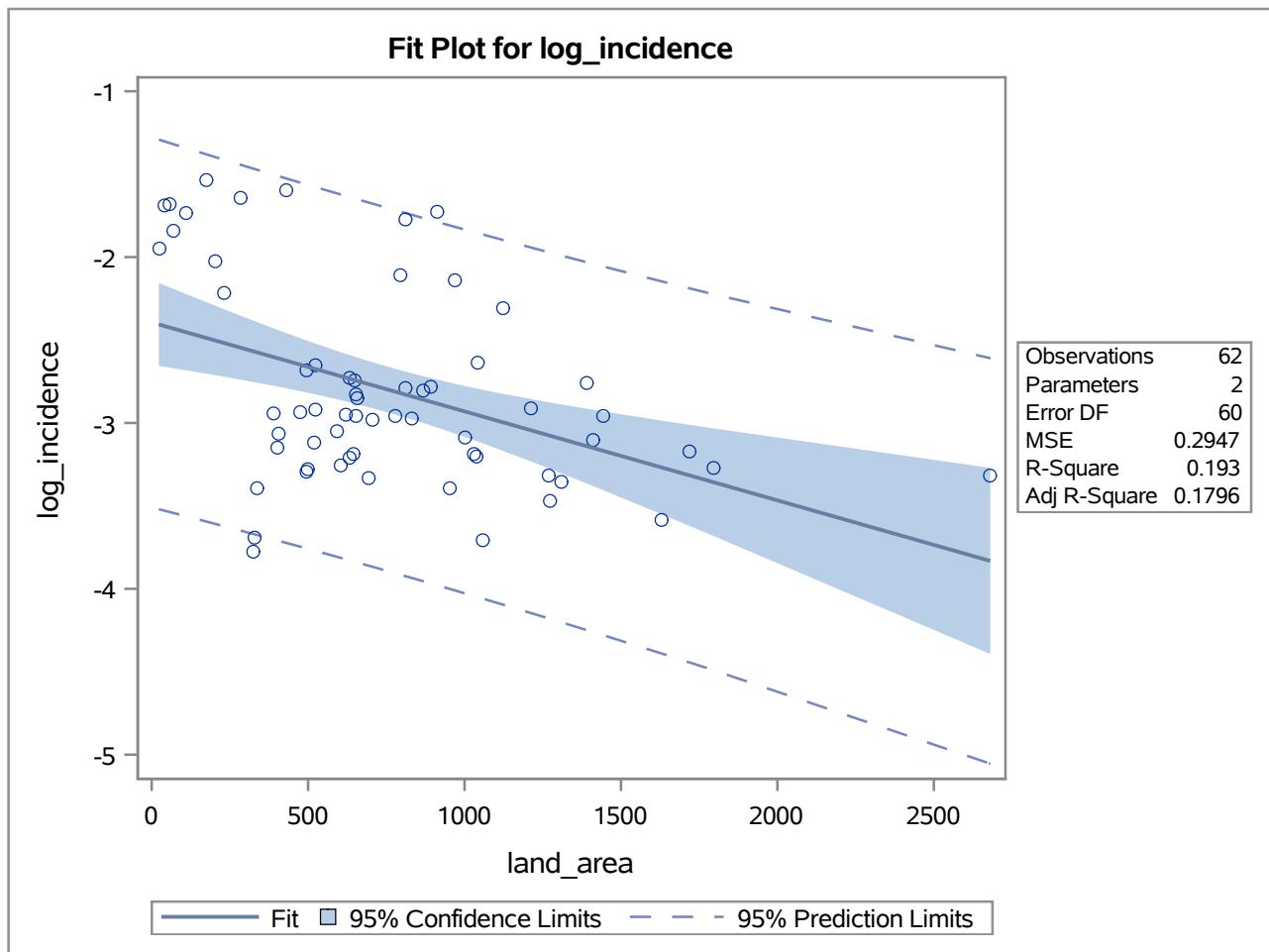
The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL8
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence

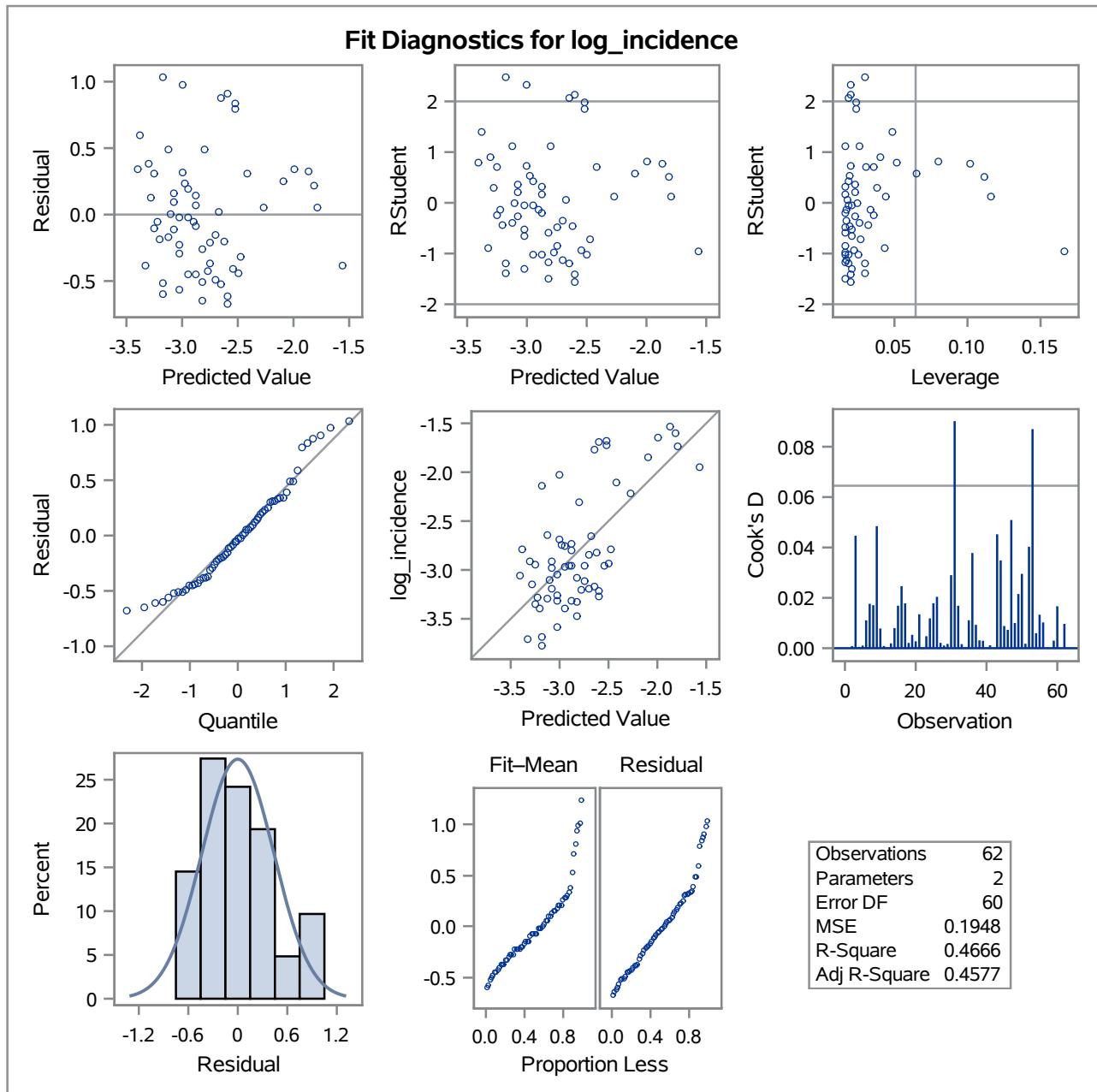
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	10.22510	10.22510	52.49	<.0001
Error	60	11.68736	0.19479		
Corrected Total	61	21.91246			

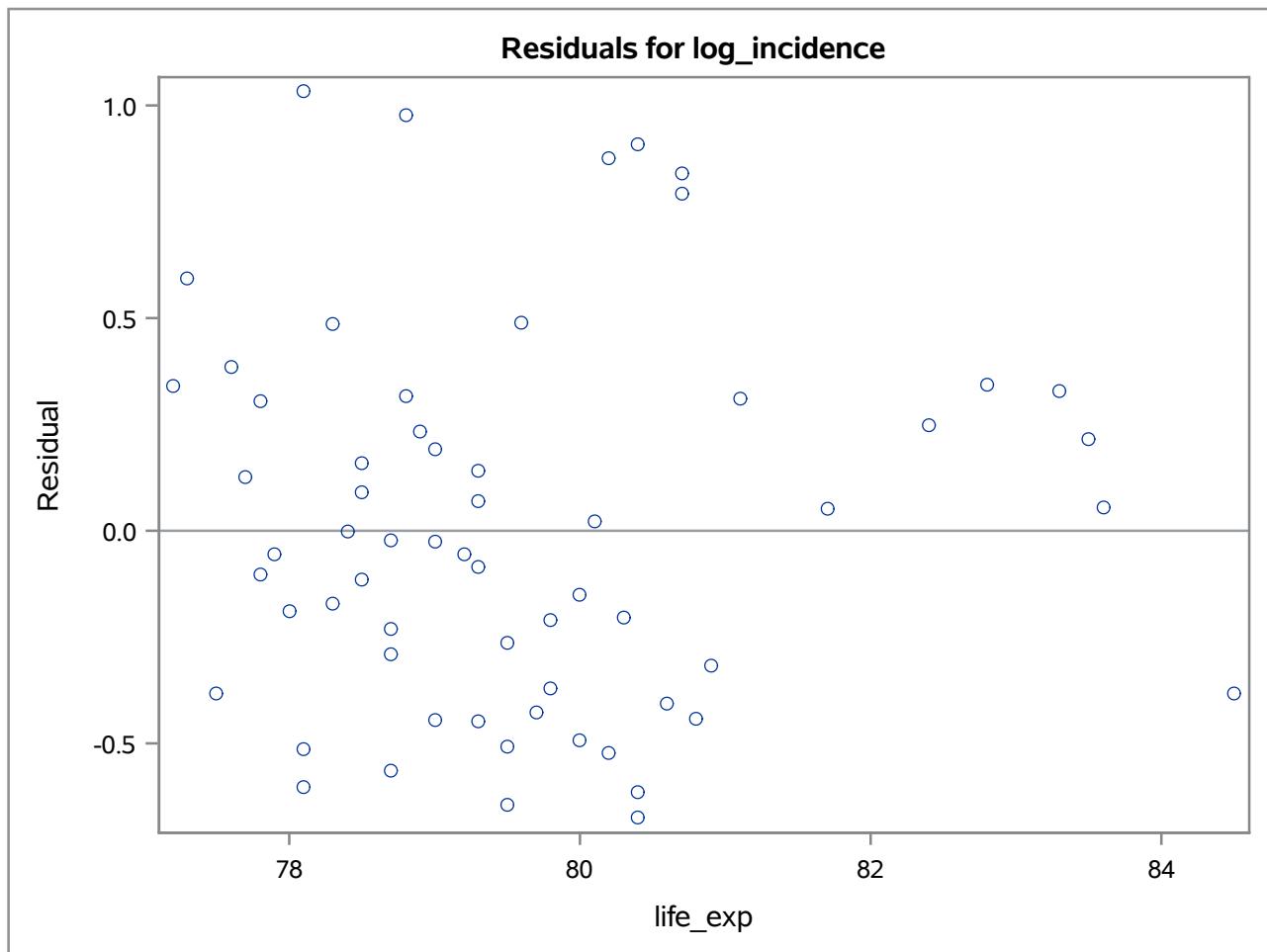
Root MSE	0.44135	R-Square	0.4666
Dependent Mean	-2.80151	Adj R-Sq	0.4577
Coeff Var	-15.75396		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-22.86940	2.77038	-8.25	<.0001
life_exp	1	0.25216	0.03480	7.25	<.0001

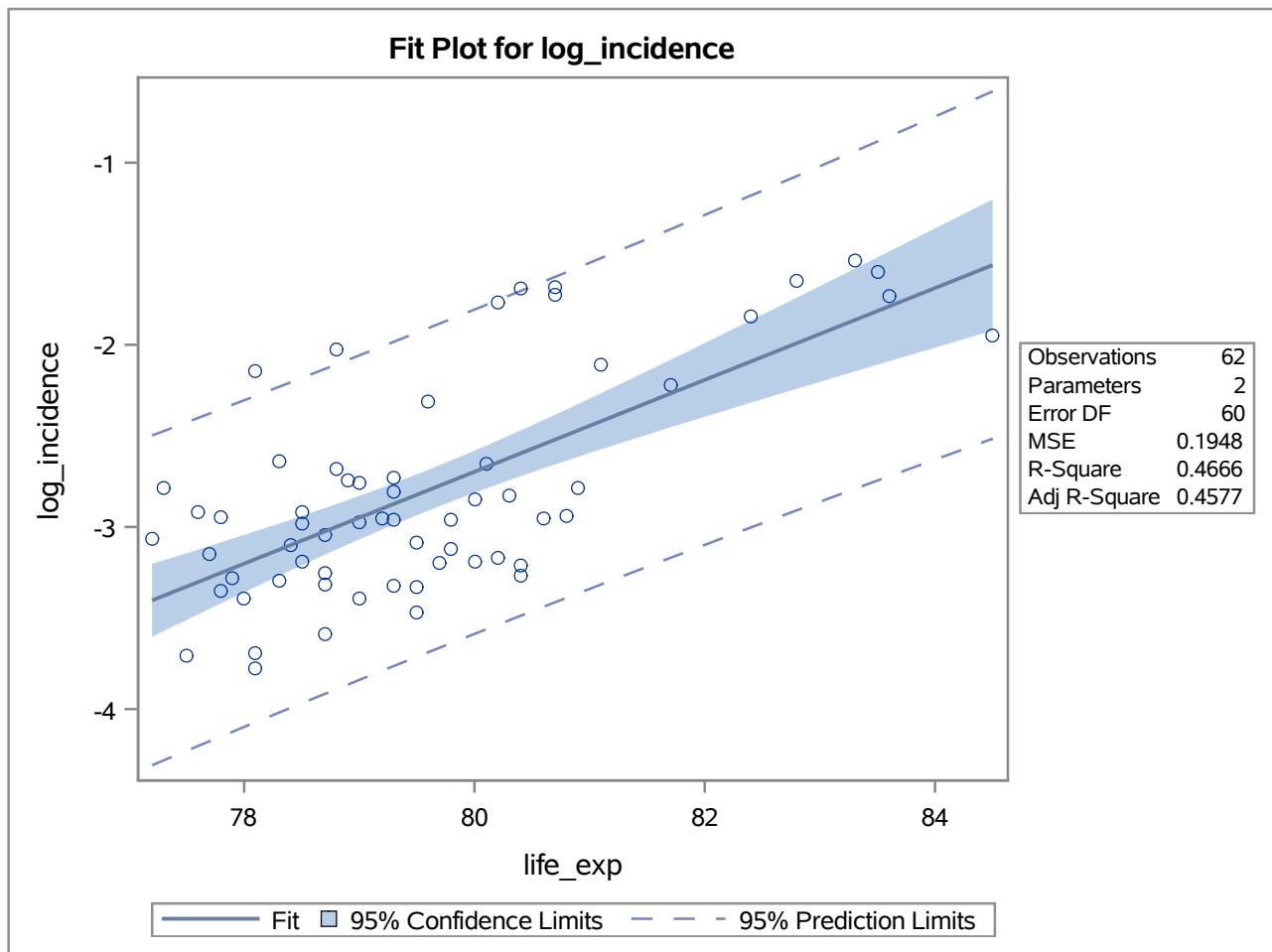
The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL9
Dependent Variable: log_incidence



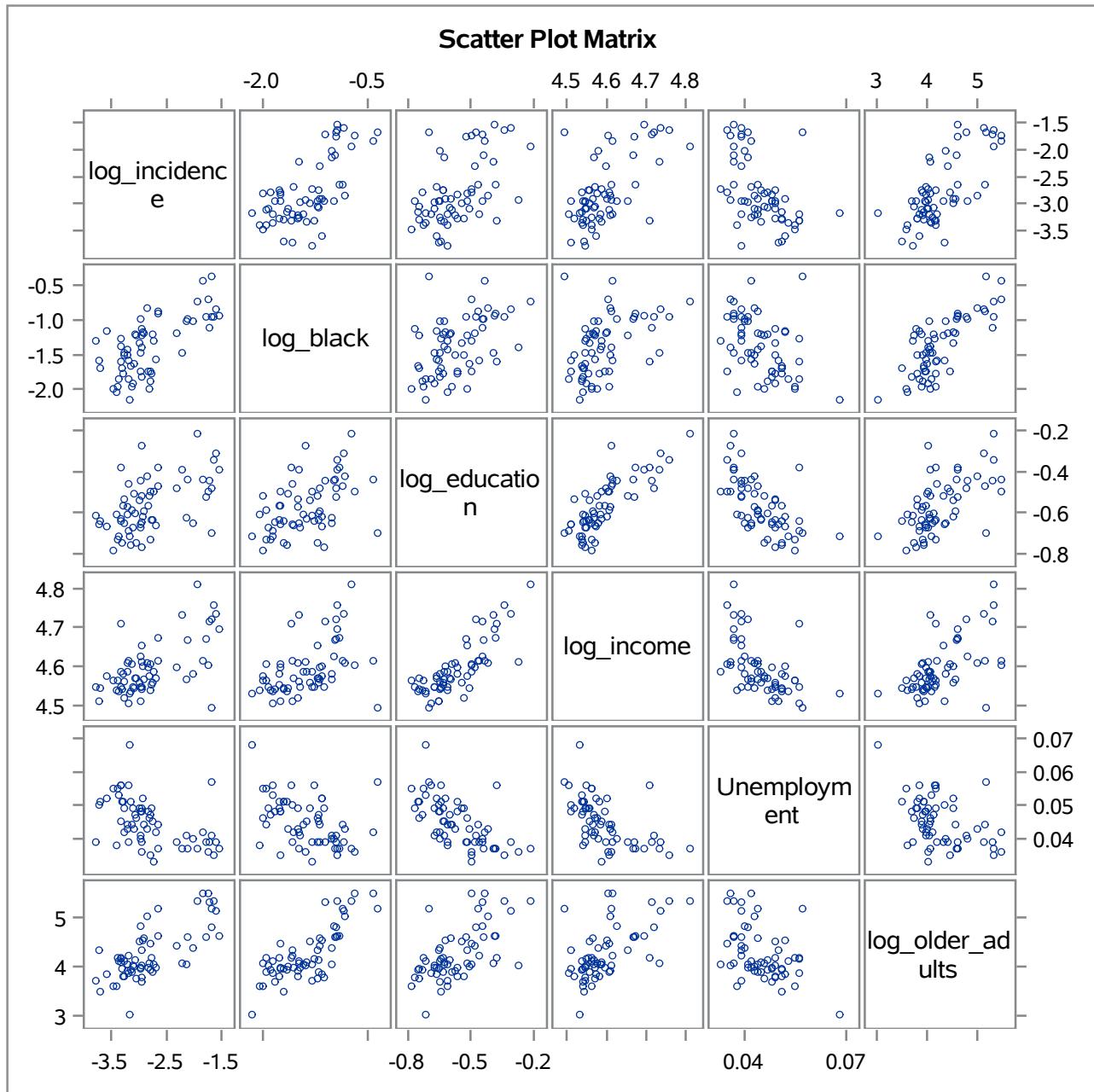
The CORR Procedure

6 Variables:	log_incidence	log_black	log_education	log_income	Unemployment	log_older_adults
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
log_incidence	62	-2.80151	0.59935	-173.69389	-3.77835	-1.53706
log_black	62	-1.37696	0.41681	-85.37151	-2.15490	-0.36653
log_education	62	-0.56737	0.13047	-35.17708	-0.78516	-0.21396
log_income	62	4.59427	0.06759	284.84451	4.49361	4.81062
Unemployment	62	0.04490	0.00696	2.78400	0.03300	0.06800
log_older_adults	62	4.25480	0.52911	263.79750	3.02776	5.47845

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0						
	log_incidence	log_black	log_education	log_income	Unemployment	log_older_adults
log_incidence	1.00000	0.67494 <.0001	0.52574 <.0001	0.61384 <.0001	-0.49497 <.0001	0.73364 <.0001
log_black	0.67494 <.0001	1.00000	0.47999 <.0001	0.46046 0.0002	-0.43482 0.0004	0.77993 <.0001
log_education	0.52574 <.0001	0.47999 <.0001	1.00000	0.80911 <.0001	-0.63680 <.0001	0.61426 <.0001
log_income	0.61384 <.0001	0.46046 0.0002	0.80911 <.0001	1.00000	-0.55273 <.0001	0.58770 <.0001
Unemployment	-0.49497 <.0001	-0.43482 0.0004	-0.63680 <.0001	-0.55273 <.0001	1.00000	-0.45229 0.0002
log_older_adults	0.73364 <.0001	0.77993 <.0001	0.61426 <.0001	0.58770 <.0001	-0.45229 0.0002	1.00000

The CORR Procedure



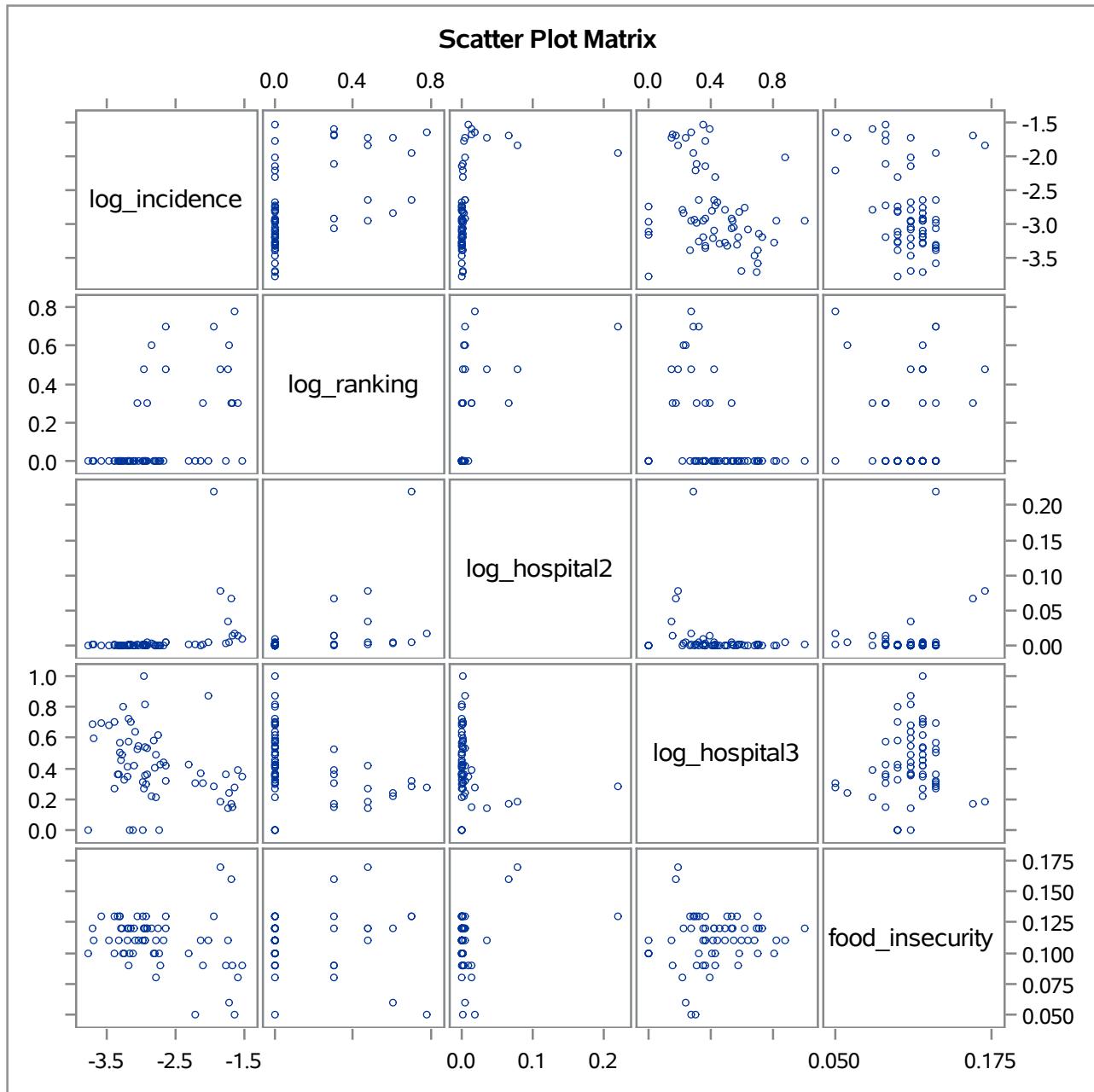
The CORR Procedure

5 Variables:	log_incidence	log_ranking	log_hospital2	log_hospital3	food_insecurity
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
log_incidence	62	-2.80151	0.59935	-173.69389	-3.77835	-1.53706
log_ranking	62	0.11443	0.21991	7.09488	0	0.77815
log_hospital2	62	0.00850	0.03042	0.52693	0	0.21932
log_hospital3	62	0.41668	0.22248	25.83397	0	0.99927
food_insecurity	62	0.11016	0.02084	6.83000	0.05000	0.17000

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0						
	log_incidence	log_ranking	log_hospital2	log_hospital3	food_insecurity	
log_incidence	1.00000	0.53758 <.0001	0.39872 0.0013	-0.29711 0.0190	-0.28816 0.0231	
log_ranking	0.53758 <.0001	1.00000	0.49585 <.0001	-0.32756 0.0094	-0.00993 0.9389	
log_hospital2	0.39872 0.0013	0.49585 <.0001	1.00000	-0.18404 0.1522	0.26582 0.0368	
log_hospital3	-0.29711 0.0190	-0.32756 0.0094	-0.18404 0.1522	1.00000	0.12580 0.3299	
food_insecurity	-0.28816 0.0231	-0.00993 0.9389	0.26582 0.0368	0.12580 0.3299	1.00000	

The CORR Procedure



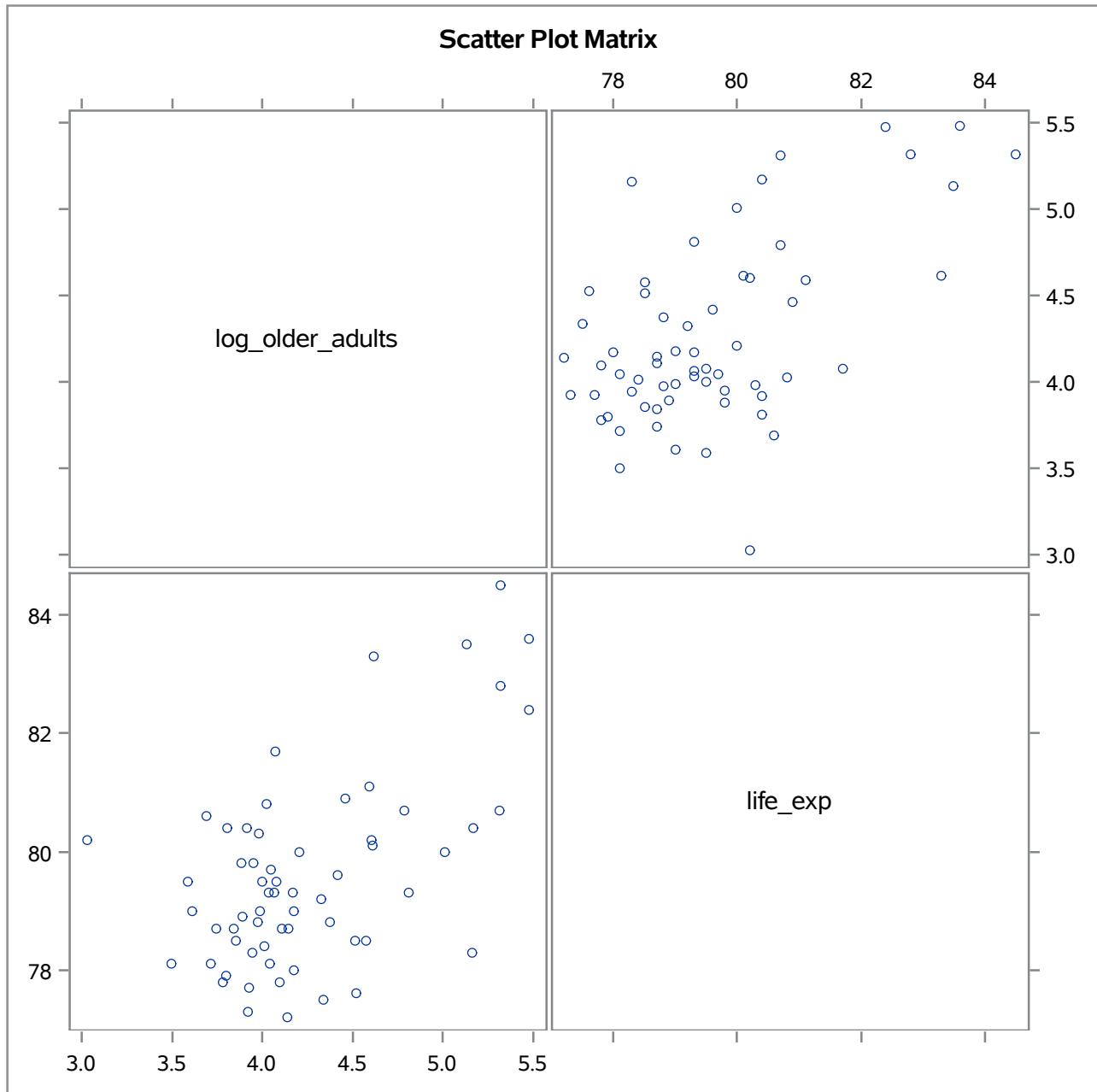
The CORR Procedure

2 Variables:	log_older_adults	life_exp
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
log_older_adults	62	4.25480	0.52911	263.79750	3.02776	5.47845
life_exp	62	79.58548	1.62368	4934	77.20000	84.50000

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0		
	log_older_adults	life_exp
log_older_adults	1.00000	0.56027 <.0001
life_exp	0.56027 <.0001	1.00000

The CORR Procedure



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	16.77811	1.29062	12.07	<.0001
Error	48	5.13435	0.10697		
Corrected Total	61	21.91246			

Root MSE	0.32706	R-Square	0.7657
Dependent Mean	-2.80151	Adj R-Sq	0.7022
Coeff Var	-11.67426		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-19.51395	8.14695	-2.40	0.0206	0
log_black	1	0.46186	0.18030	2.56	0.0136	3.22074
log_education	1	-1.15438	0.89885	-1.28	0.2052	7.84248
log_income	1	1.01158	1.36647	0.74	0.4627	4.86456
Unemployment	1	5.39668	10.75807	0.50	0.6182	3.19342
log_older_adults	1	0.62133	0.17691	3.51	0.0010	4.99668
log_ranking	1	-0.58170	0.34715	-1.68	0.1003	3.32369
log_hospital2	1	0.06256	2.29413	0.03	0.9784	2.77657
log_hospital3	1	0.06165	0.20880	0.30	0.7691	1.23061
food_insecurity	1	-7.43251	3.70979	-2.00	0.0508	3.40936
Diabetes_prev	1	-1.39081	4.51269	-0.31	0.7593	3.10661
Hypertension_prev	1	0.19301	1.36329	0.14	0.8880	2.06163
land_area	1	-0.00011292	0.00011987	-0.94	0.3509	1.97399
life_exp	1	0.12801	0.04666	2.74	0.0085	3.27289

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

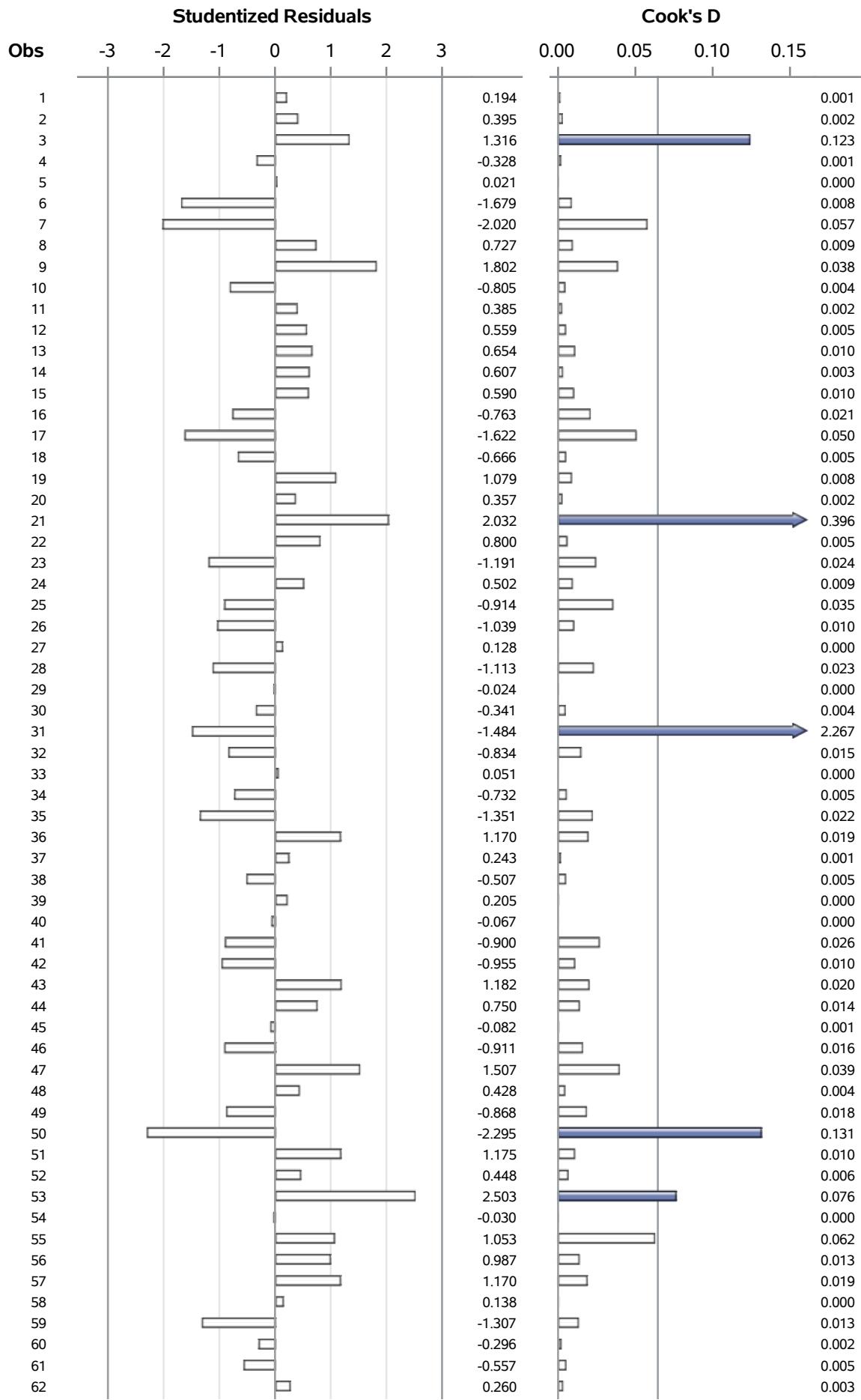
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	-2.65	-2.7052	0.1643	0.0548	0.283	0.194	0.001
2	-3.19	-3.3064	0.1398	0.1167	0.296	0.395	0.002
3	-1.69	-1.9926	0.2311	0.3045	0.231	1.316	0.123
4	-2.98	-2.8850	0.1289	-0.0987	0.301	-0.328	0.001
5	-3.35	-3.3605	0.1145	0.006414	0.306	0.021	0.000
6	-3.33	-2.7928	0.0647	-0.5382	0.321	-1.679	0.008
7	-3.71	-3.1048	0.1323	-0.6042	0.299	-2.020	0.057
8	-3.06	-3.2761	0.1432	0.2138	0.294	0.727	0.009
9	-2.78	-3.3309	0.1231	0.5459	0.303	1.802	0.038
10	-3.20	-2.9472	0.0944	-0.2521	0.313	-0.805	0.004
11	-2.73	-2.8472	0.1328	0.1150	0.299	0.385	0.002
12	-3.28	-3.4478	0.1367	0.1661	0.297	0.559	0.005
13	-2.96	-3.1430	0.1651	0.1846	0.282	0.654	0.010
14	-2.11	-2.2981	0.1001	0.1888	0.311	0.607	0.003
15	-2.64	-2.8030	0.1736	0.1634	0.277	0.590	0.010
16	-3.27	-3.0666	0.1880	-0.2041	0.268	-0.763	0.021
17	-3.59	-3.1162	0.1500	-0.4713	0.291	-1.622	0.050
18	-3.30	-3.0947	0.1188	-0.2030	0.305	-0.666	0.005
19	-2.68	-3.0204	0.0991	0.3362	0.312	1.079	0.008
20	-2.74	-2.8465	0.1474	0.1043	0.292	0.357	0.002
21	-3.17	-3.6036	0.2477	0.4339	0.214	2.032	0.396
22	-3.10	-3.3483	0.1069	0.2473	0.309	0.800	0.005
23	-3.32	-2.9657	0.1432	-0.3501	0.294	-1.191	0.024
24	-1.84	-1.9777	0.1885	0.1341	0.267	0.502	0.009
25	-3.47	-3.2308	0.1990	-0.2373	0.260	-0.914	0.035
26	-3.21	-2.8895	0.1096	-0.3203	0.308	-1.039	0.010
27	-2.82	-2.8648	0.0930	0.0401	0.314	0.128	0.000
28	-2.85	-2.5229	0.1475	-0.3249	0.292	-1.113	0.023
29	-3.15	-3.1430	0.1391	-0.007186	0.296	-0.024	0.000
30	-1.65	-1.5558	0.1915	-0.0904	0.265	-0.341	0.004
31	-1.95	-1.8219	0.3163	-0.1236	0.0833	-1.484	2.267
32	-2.92	-2.6767	0.1558	-0.2399	0.288	-0.834	0.015
33	-2.92	-2.9301	0.1492	0.0148	0.291	0.051	0.000

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	-2.96	-2.7331	0.1131	-0.2247	0.307	-0.732	0.005
35	-3.19	-2.7806	0.1237	-0.4090	0.303	-1.351	0.022
36	-1.77	-2.1204	0.1319	0.3501	0.299	1.170	0.019
37	-2.95	-3.0155	0.1582	0.0696	0.286	0.243	0.001
38	-3.39	-3.2423	0.1479	-0.1479	0.292	-0.507	0.005
39	-3.09	-3.1490	0.1125	0.0629	0.307	0.205	0.000
40	-2.22	-2.1993	0.1748	-0.0184	0.276	-0.067	0.000
41	-1.73	-1.4904	0.1831	-0.2438	0.271	-0.900	0.026
42	-2.95	-2.6646	0.1215	-0.2901	0.304	-0.955	0.010
43	-1.68	-2.0348	0.1329	0.3533	0.299	1.182	0.020
44	-1.54	-1.7490	0.1644	0.2120	0.283	0.750	0.014
45	-3.32	-3.3021	0.2377	-0.0185	0.225	-0.082	0.001
46	-2.79	-2.5215	0.1492	-0.2650	0.291	-0.911	0.016
47	-2.02	-2.4654	0.1440	0.4425	0.294	1.507	0.039
48	-2.95	-3.0742	0.1597	0.1221	0.285	0.428	0.004
49	-3.69	-3.4445	0.1640	-0.2457	0.283	-0.868	0.018
50	-3.78	-3.1319	0.1663	-0.6464	0.282	-2.295	0.131
51	-2.76	-3.1245	0.1004	0.3659	0.311	1.175	0.010
52	-1.73	-1.8513	0.1791	0.1226	0.274	0.448	0.006
53	-2.14	-2.8992	0.1247	0.7569	0.302	2.503	0.076
54	-3.12	-3.1094	0.1561	-0.008679	0.287	-0.030	0.000
55	-2.94	-3.1941	0.2169	0.2577	0.245	1.053	0.062
56	-2.31	-2.6047	0.1311	0.2958	0.300	0.987	0.013
57	-2.80	-3.1546	0.1307	0.3509	0.300	1.170	0.019
58	-2.97	-3.0147	0.1384	0.0408	0.296	0.138	0.000
59	-3.26	-2.8489	0.1004	-0.4067	0.311	-1.307	0.013
60	-1.60	-1.5136	0.1482	-0.0864	0.292	-0.296	0.002
61	-3.05	-2.8817	0.1389	-0.1650	0.296	-0.557	0.005
62	-3.40	-3.4629	0.1972	0.0678	0.261	0.260	0.003

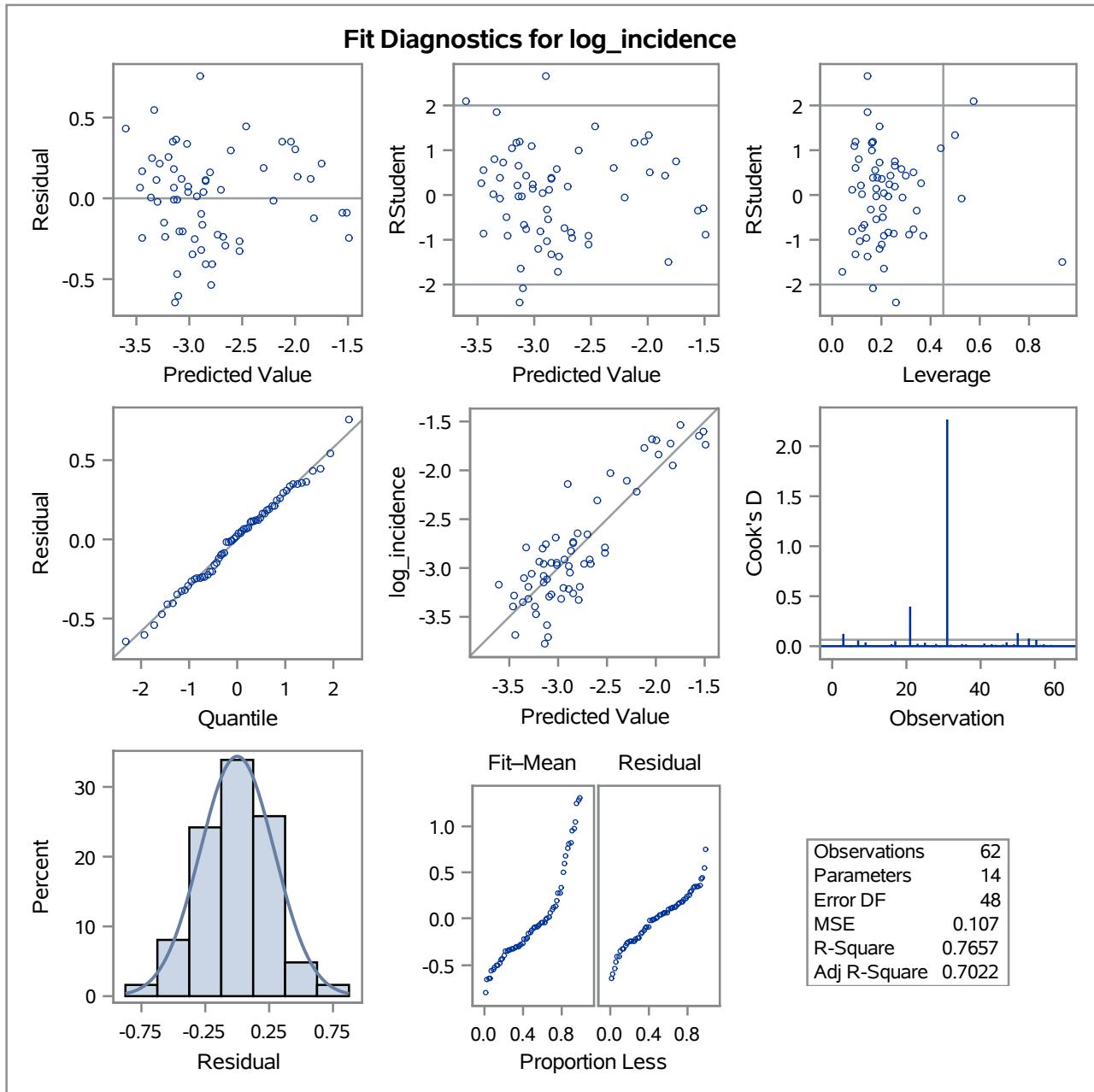
**The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence**

Studentized Residuals and Cook's D for log_incidence

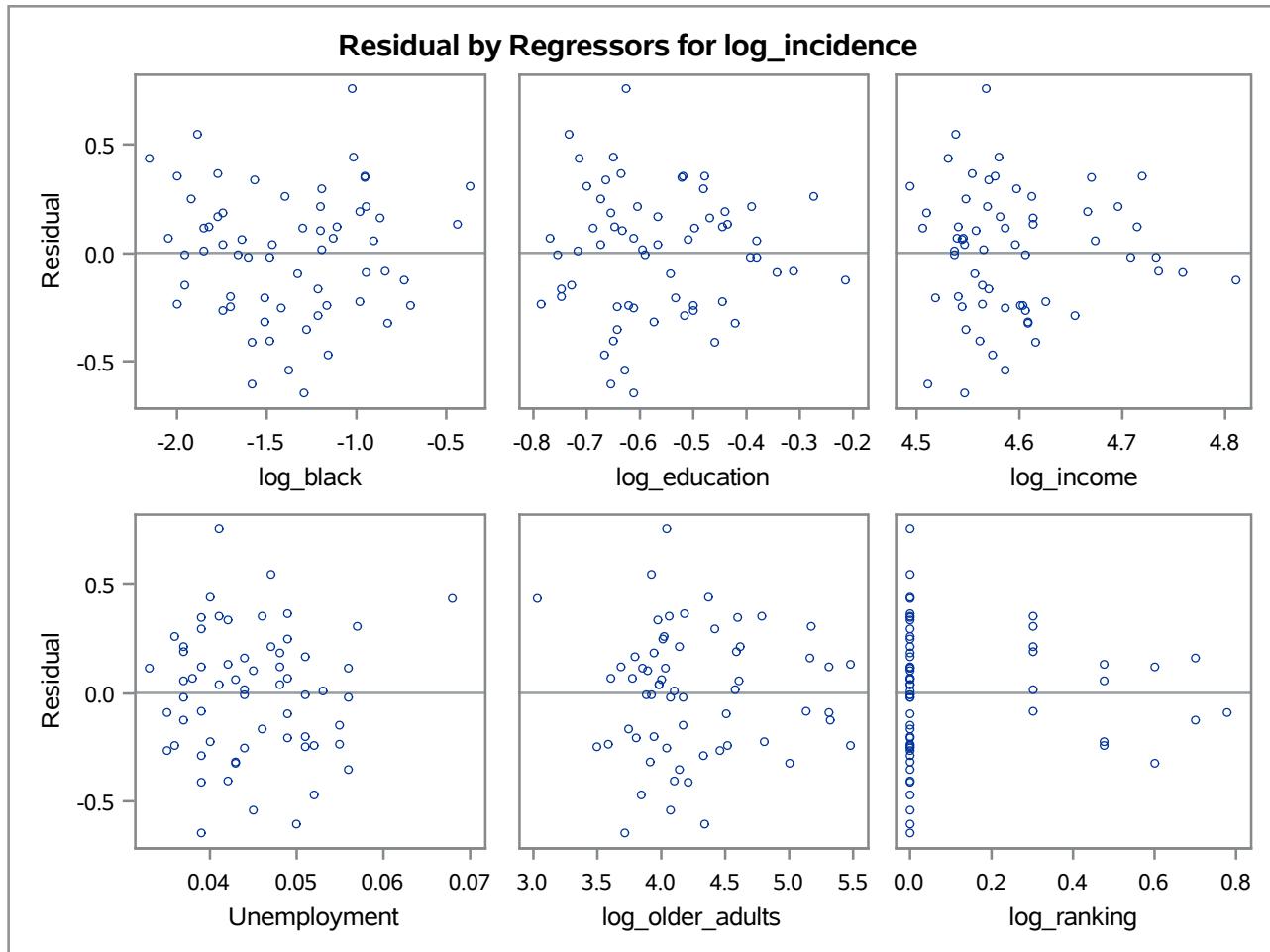


The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

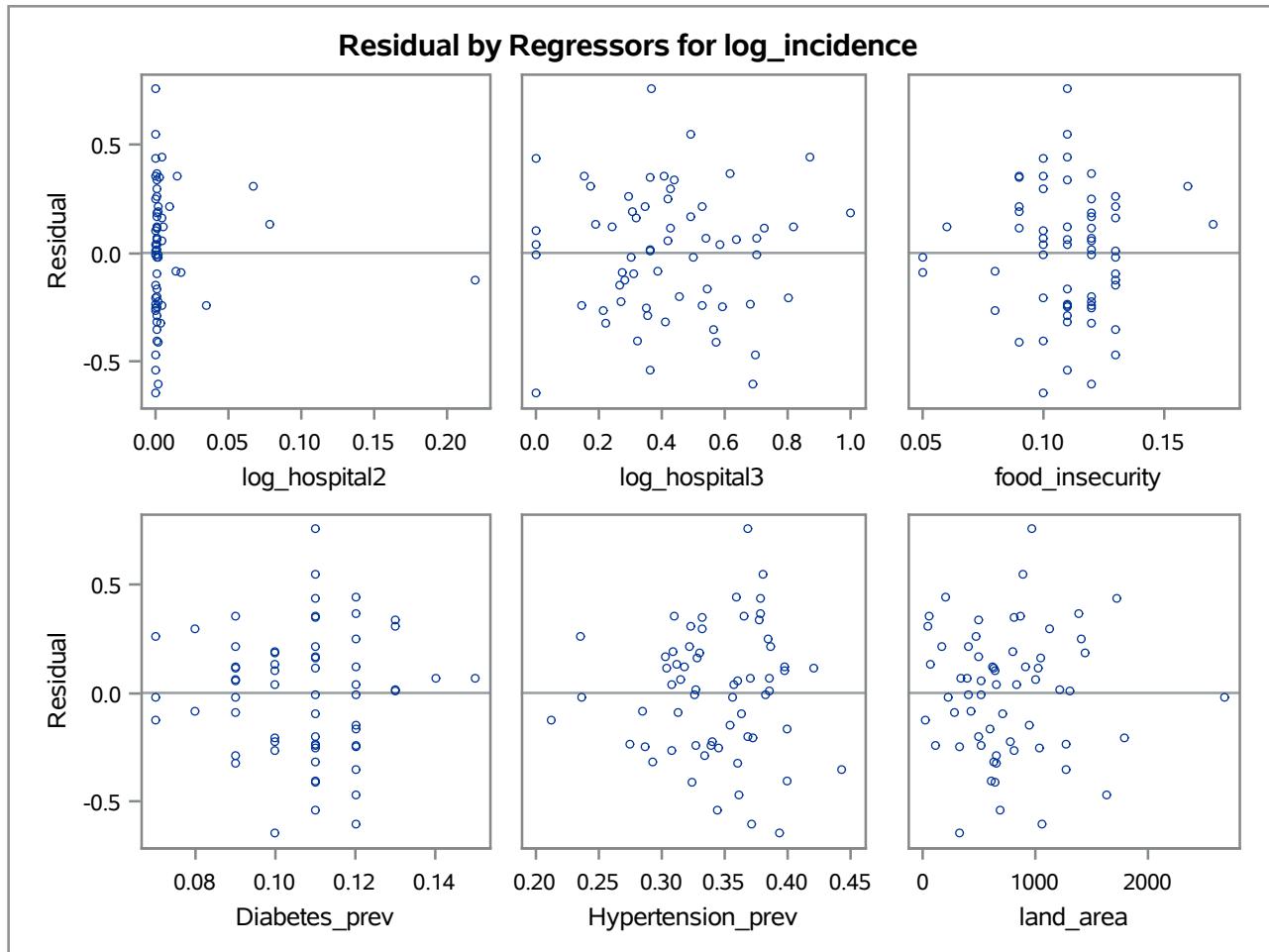
Sum of Residuals	0
Sum of Squared Residuals	5.13435
Predicted Residual SS (PRESS)	12.27588



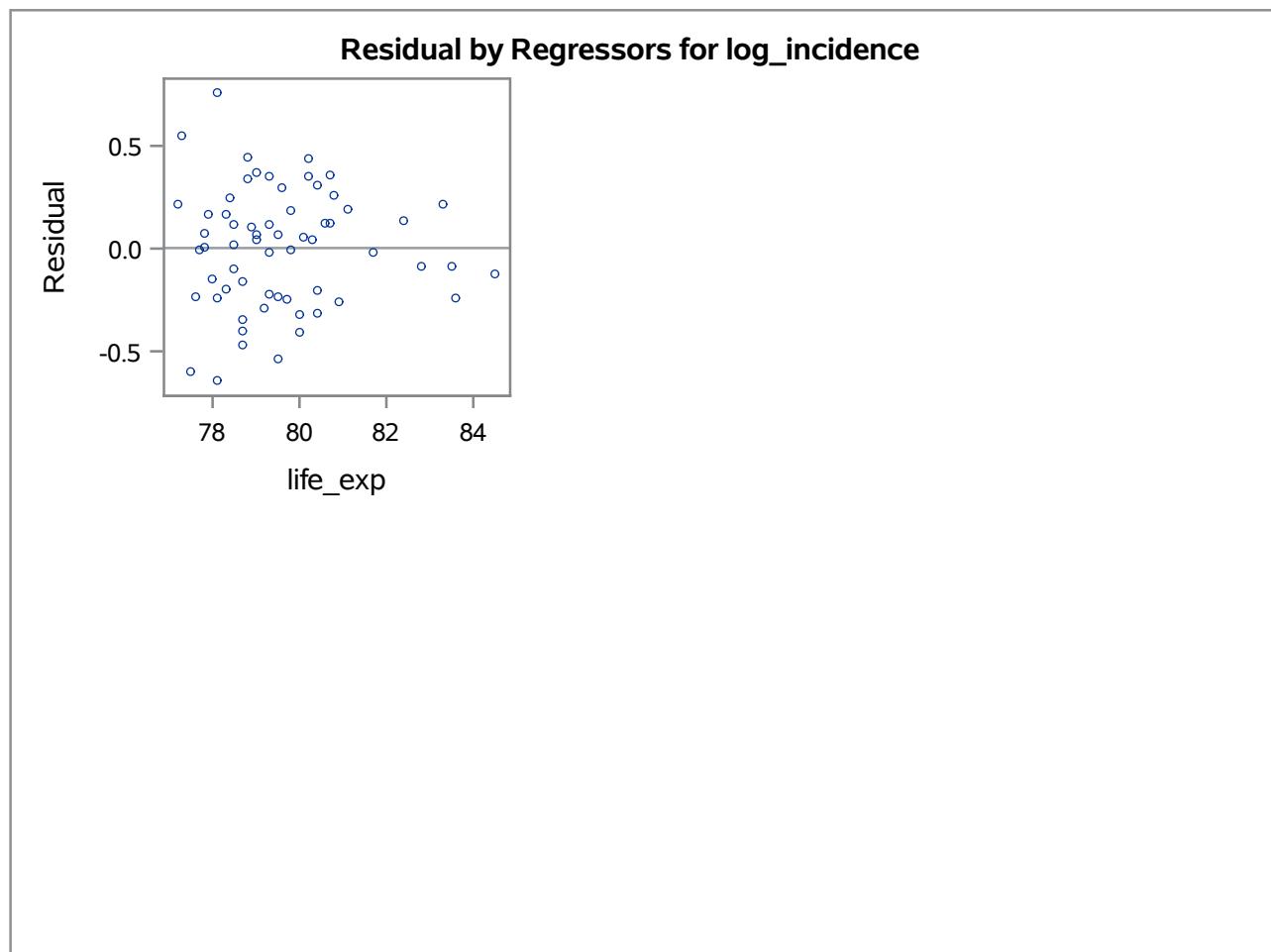
The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1



The SURVEYSELECT Procedure

Selection Method	Simple Random Sampling
Input Data Set	COVID_STANDARDIZED
Random Number Seed	123
Sampling Rate	0.7
Sample Size	44
Selection Probability	0.709677
Sampling Weight	0
Output Data Set	TRAINTEST

The GLMSELECT Procedure

Data Set	WORK.TRAINTEST
Dependent Variable	log_incidence
Selection Method	LAR
Stop Criterion	None
Choose Criterion	Cross Validation
Cross Validation Method	Random
Cross Validation Fold	10
Effect Hierarchy Enforced	None
Random Number Seed	123

Number of Observations Read	62
Number of Observations Used	62
Number of Observations Used for Training	44
Number of Observations Used for Testing	18

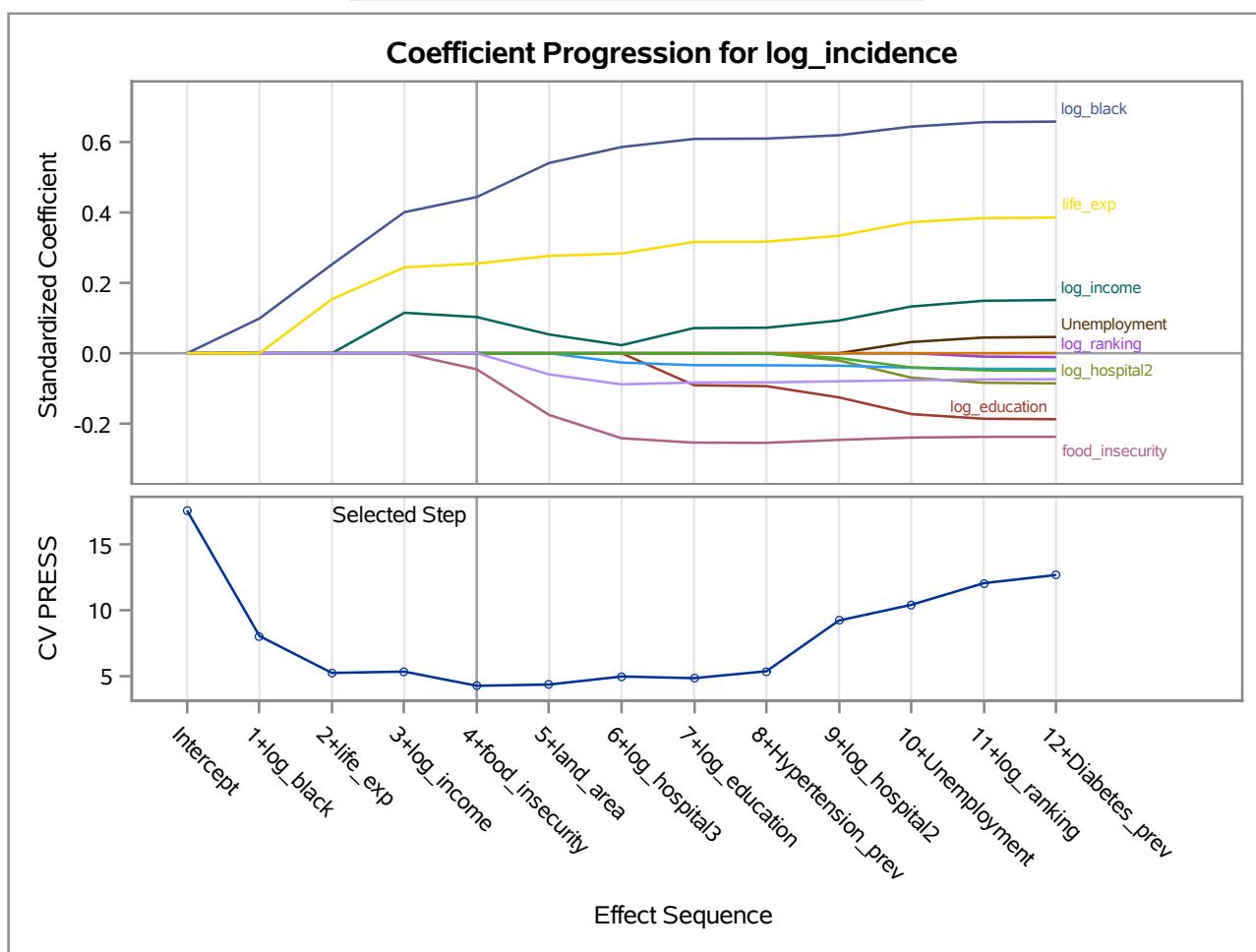
Dimensions	
Number of Effects	13
Number of Parameters	13

The GLMSELECT Procedure

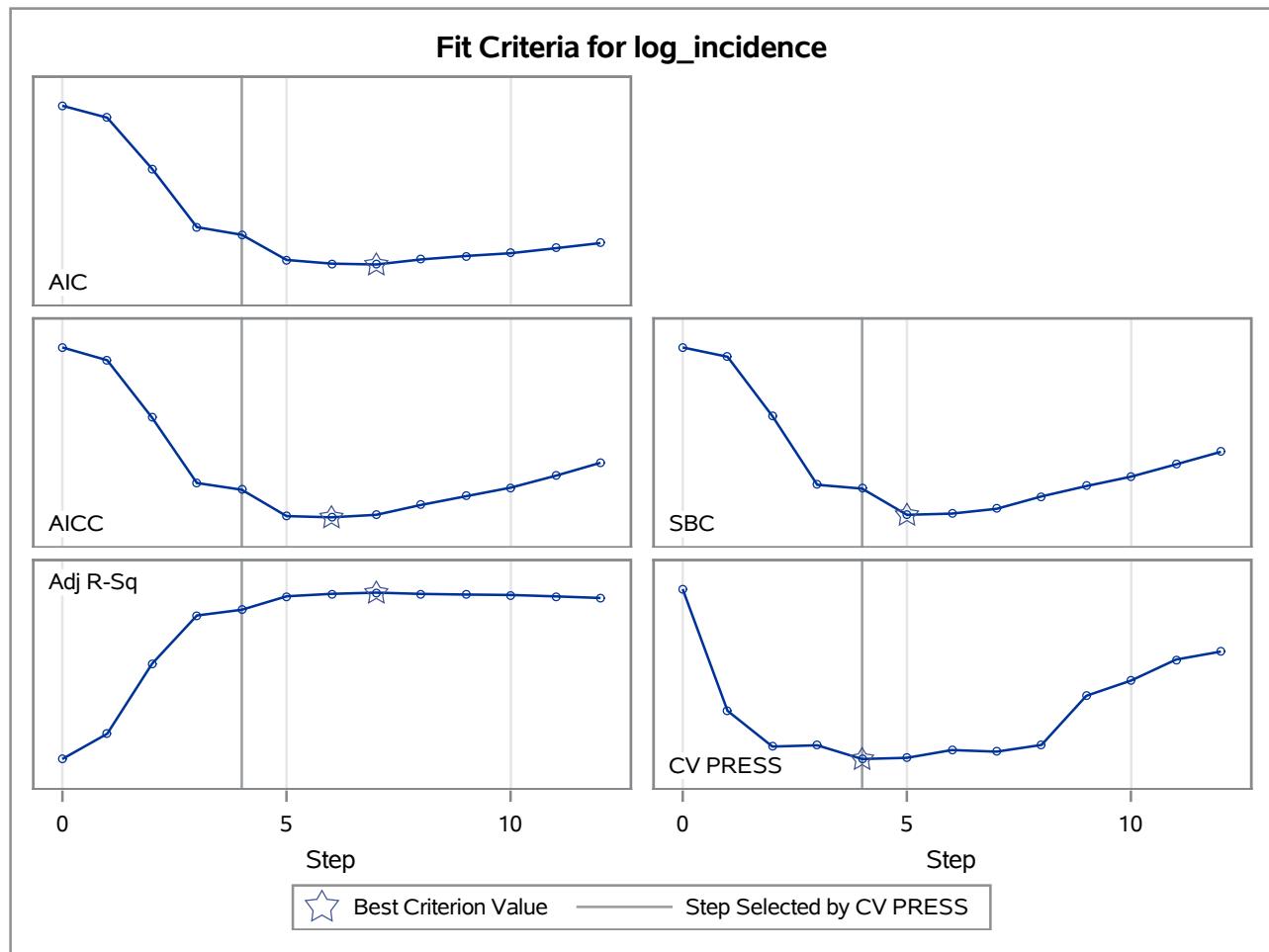
LAR Selection Summary					
Step	Effect Entered	Number Effects In	ASE	Test ASE	CV PRESS
0	Intercept	1	0.3799	0.3054	17.5561
1	log_black	2	0.3270	0.2659	8.0410
2	life_exp	3	0.1998	0.1898	5.2490
3	log_income	4	0.1146	0.1787	5.3460
4	food_insecurity	5	0.1024	0.1819	4.2748*
5	land_area	6	0.0785	0.2046	4.3681
6	log_hospital3	7	0.0727	0.2335	4.9764
7	log_education	8	0.0689	0.2389	4.8509
8	Hypertension_prev	9	0.0688	0.2391	5.3758
9	log_hospital2	10	0.0678	0.2427	9.2163
10	Unemployment	11	0.0664	0.2506	10.4120
11	log_ranking	12	0.0662	0.2544	12.0497
12	Diabetes_prev	13	0.0662	0.2550	12.6740

* Optimal Value of Criterion

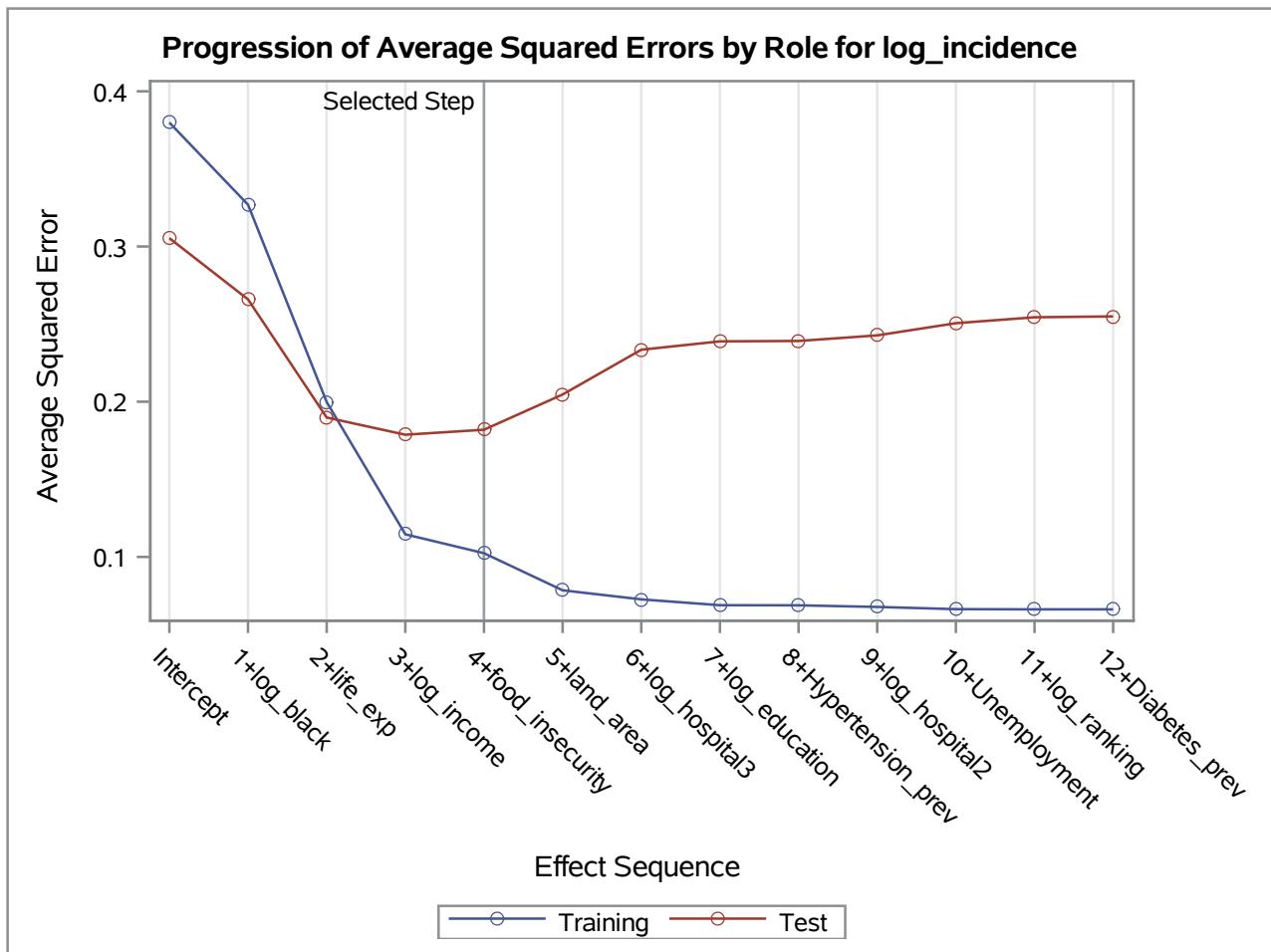
Selection stopped because all effects are in the final model.



The GLMSELECT Procedure



The GLMSELECT Procedure



The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 4.

Effects:	Intercept log_black log_income food_insecurity life_exp
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	4	12.20827	3.05207	26.42
Error	39	4.50587	0.11554	
Corrected Total	43	16.71414		

Root MSE	0.33990
Dependent Mean	-2.73210
R-Square	0.7304
Adj R-Sq	0.7028
AIC	-44.26758
AICC	-41.99731
SBC	-81.34663
ASE (Train)	0.10241
ASE (Test)	0.18194
CV PRESS	4.27484

The GLMSELECT Procedure
Selected Model

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	-2.816200
log_black	1	0.290807
log_income	1	0.063005
food_insecurity	1	-0.025616
life_exp	1	0.152074

The GLMSELECT Procedure

Data Set	WORK.COVID_STANDARDIZED
Dependent Variable	log_incidence
Selection Method	LASSO
Stop Criterion	None
Choose Criterion	BIC
Effect Hierarchy Enforced	None

Number of Observations Read	62
Number of Observations Used	62

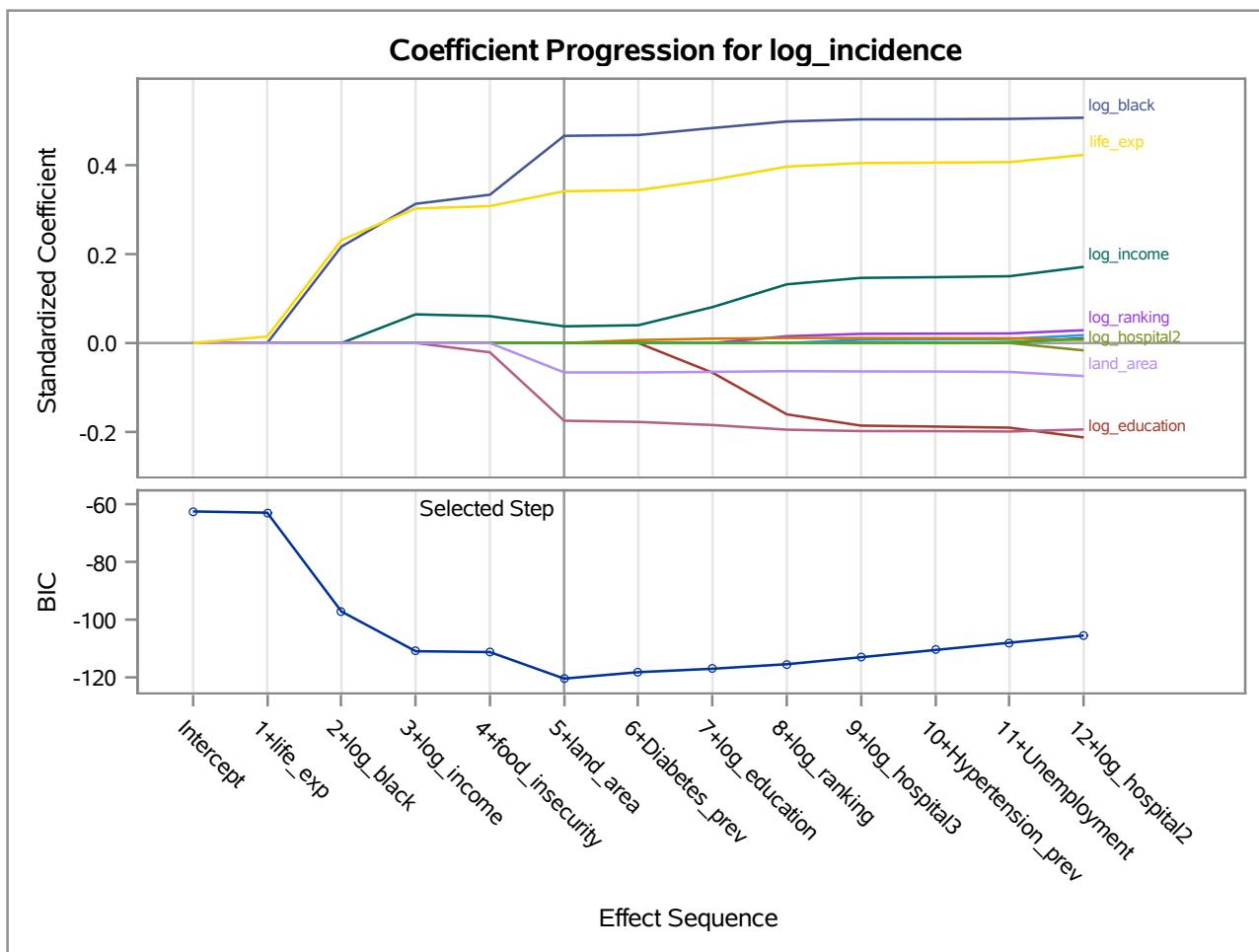
Dimensions	
Number of Effects	13
Number of Parameters	13

The GLMSELECT Procedure

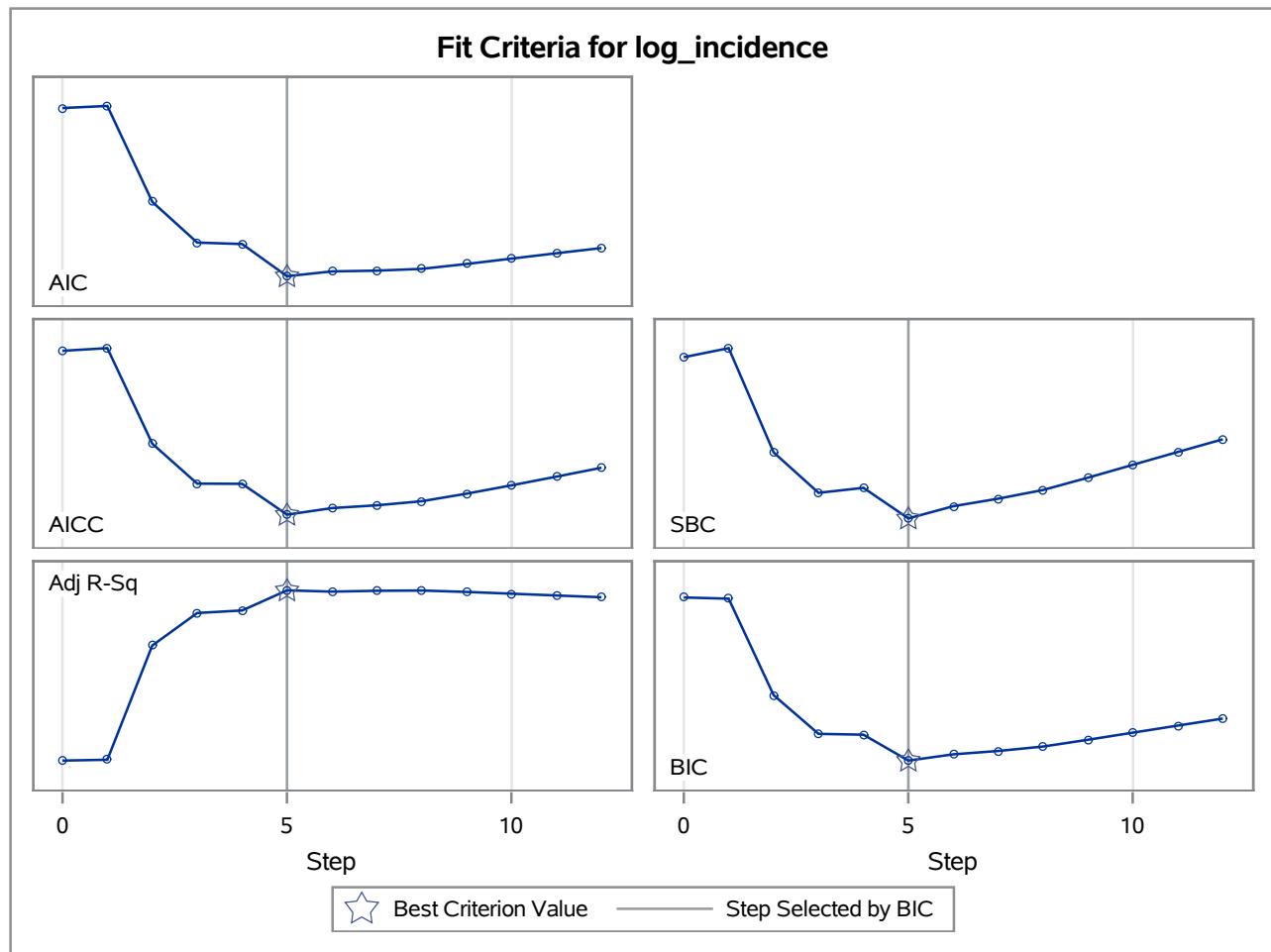
LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	BIC
0	Intercept		1	-62.5267
1	life_exp		2	-62.9624
2	log_black		3	-97.1972
3	log_income		4	-110.9439
4	food_insecurity		5	-111.2511
5	land_area		6	-120.4387*
6	Diabetes_prev		7	-118.2144
7	log_education		8	-117.0274
8	log_ranking		9	-115.4479
9	log_hospital3		10	-113.0382
10	Hypertension_prev		11	-110.5194
11	Unemployment		12	-108.0033
12	log_hospital2		13	-105.5158

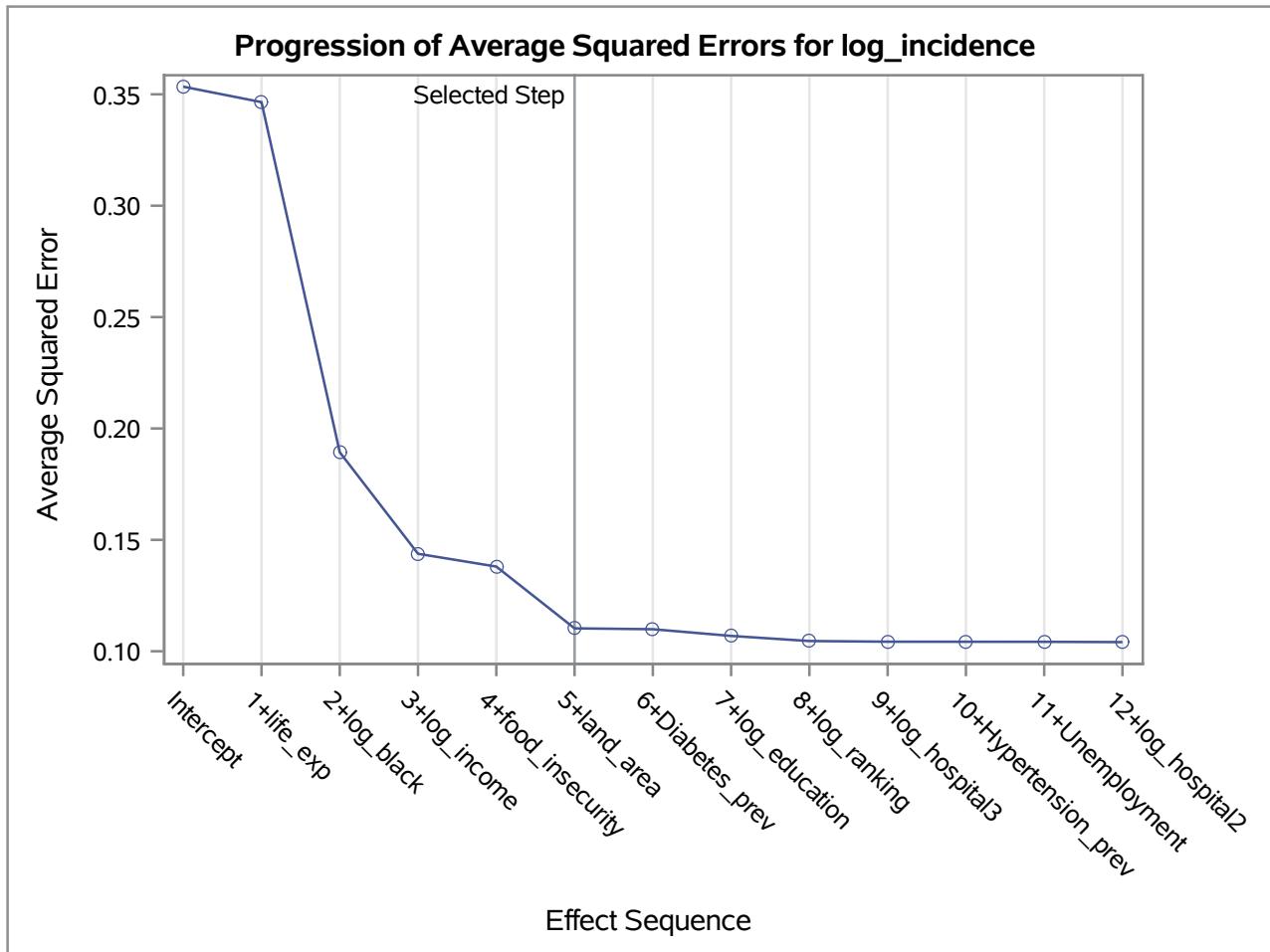
* Optimal Value of Criterion

Selection stopped because all effects are in the final model.



The GLMSELECT Procedure



The GLMSELECT Procedure

The GLMSELECT Procedure Selected Model

The selected model, based on BIC, is the model at Step 5.

Effects:	Intercept log_black log_income food_insecurity land_area life_exp
-----------------	---

Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	5	15.07533	3.01507	24.70
Error	56	6.83713	0.12209	
Corrected Total	61	21.91246		

Root MSE	0.34942
Dependent Mean	-2.80151
R-Square	0.6880
Adj R-Sq	0.6601
AIC	-60.69553
AICC	-58.62146
BIC	-120.43872
C(p)	1.91046
SBC	-111.93273

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	-2.801514
log_black	1	0.279255
log_income	1	0.022471
food_insecurity	1	-0.104740
land_area	1	-0.039608
life_exp	1	0.204574

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	15.14169	3.02834	25.05	<.0001
Error	56	6.77077	0.12091		
Corrected Total	61	21.91246			

Root MSE	0.34772	R-Square	0.6910
Dependent Mean	-2.80151	Adj R-Sq	0.6634
Coeff Var	-12.41172		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-12.63684	4.51514	-2.80	0.0070	0
log_black	1	0.71546	0.14629	4.89	<.0001	1.87575
log_income	1	0.28405	1.03632	0.27	0.7850	2.47529
food_insecurity	1	-6.08195	2.68009	-2.27	0.0271	1.57423
life_exp	1	0.12894	0.03867	3.33	0.0015	1.98862
land_area	1	-0.00009997	0.00010332	-0.97	0.3374	1.29744

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

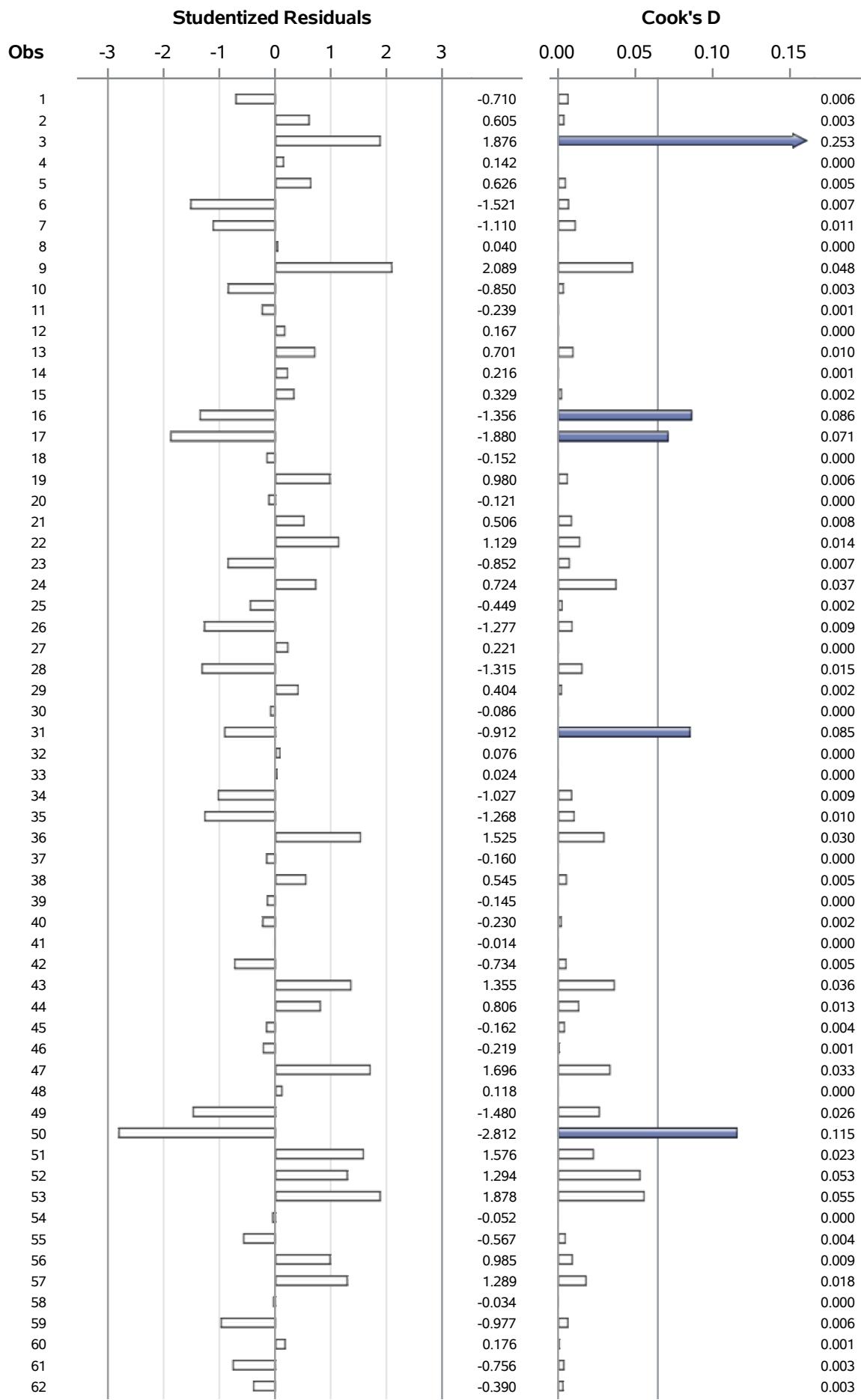
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	-2.65	-2.4122	0.0910	-0.2381	0.336	-0.710	0.006
2	-3.19	-3.3945	0.0806	0.2048	0.338	0.605	0.003
3	-1.69	-2.2335	0.1907	0.5455	0.291	1.876	0.253
4	-2.98	-3.0322	0.0657	0.0485	0.341	0.142	0.000
5	-3.35	-3.5647	0.0887	0.2106	0.336	0.626	0.005
6	-3.33	-2.8067	0.0452	-0.5243	0.345	-1.521	0.007
7	-3.71	-3.3327	0.0778	-0.3763	0.339	-1.110	0.011
8	-3.06	-3.0756	0.1096	0.0133	0.330	0.040	0.000
9	-2.78	-3.4887	0.0862	0.7038	0.337	2.089	0.048
10	-3.20	-2.9078	0.0571	-0.2915	0.343	-0.850	0.003
11	-2.73	-2.6511	0.0781	-0.0811	0.339	-0.239	0.001
12	-3.28	-3.3370	0.1048	0.0553	0.332	0.167	0.000
13	-2.96	-3.1891	0.1122	0.2307	0.329	0.701	0.010
14	-2.11	-2.1819	0.0857	0.0726	0.337	0.216	0.001
15	-2.64	-2.7479	0.1115	0.1083	0.329	0.329	0.002
16	-3.27	-2.8540	0.1627	-0.4167	0.307	-1.356	0.086
17	-3.59	-2.9700	0.1139	-0.6175	0.329	-1.880	0.071
18	-3.30	-3.2462	0.0803	-0.0515	0.338	-0.152	0.000
19	-2.68	-3.0192	0.0642	0.3350	0.342	0.980	0.006
20	-2.74	-2.7012	0.0839	-0.0409	0.337	-0.121	0.000
21	-3.17	-3.3307	0.1406	0.1610	0.318	0.506	0.008
22	-3.10	-3.4815	0.0859	0.3805	0.337	1.129	0.014
23	-3.32	-3.0279	0.0819	-0.2880	0.338	-0.852	0.007
24	-1.84	-2.0544	0.1899	0.2109	0.291	0.724	0.037
25	-3.47	-3.3175	0.0908	-0.1506	0.336	-0.449	0.002
26	-3.21	-2.7727	0.0616	-0.4371	0.342	-1.277	0.009
27	-2.82	-2.8997	0.0757	0.0750	0.339	0.221	0.000
28	-2.85	-2.4021	0.0777	-0.4457	0.339	-1.315	0.015
29	-3.15	-3.2858	0.0912	0.1356	0.336	0.404	0.002
30	-1.65	-1.6194	0.1518	-0.0268	0.313	-0.086	0.000
31	-1.95	-1.6959	0.2145	-0.2495	0.274	-0.912	0.085
32	-2.92	-2.9417	0.1023	0.0251	0.332	0.076	0.000
33	-2.92	-2.9236	0.0820	0.008266	0.338	0.024	0.000

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	-2.96	-2.6091	0.0750	-0.3487	0.340	-1.027	0.009
35	-3.19	-2.7568	0.0660	-0.4328	0.341	-1.268	0.010
36	-1.77	-2.2813	0.0926	0.5110	0.335	1.525	0.030
37	-2.95	-2.8923	0.0932	-0.0536	0.335	-0.160	0.000
38	-3.39	-3.5705	0.1080	0.1802	0.331	0.545	0.005
39	-3.09	-3.0367	0.0667	-0.0494	0.341	-0.145	0.000
40	-2.22	-2.1454	0.1476	-0.0723	0.315	-0.230	0.002
41	-1.73	-1.7300	0.1609	-0.004218	0.308	-0.014	0.000
42	-2.95	-2.7065	0.0805	-0.2482	0.338	-0.734	0.005
43	-1.68	-2.1273	0.1130	0.4457	0.329	1.355	0.036
44	-1.54	-1.8020	0.1140	0.2649	0.329	0.806	0.013
45	-3.32	-3.2796	0.2382	-0.0411	0.253	-0.162	0.004
46	-2.79	-2.7134	0.0965	-0.0730	0.334	-0.219	0.001
47	-2.02	-2.5932	0.0885	0.5704	0.336	1.696	0.033
48	-2.95	-2.9910	0.1075	0.0389	0.331	0.118	0.000
49	-3.69	-3.1934	0.0904	-0.4968	0.336	-1.480	0.026
50	-3.78	-2.8408	0.0986	-0.9375	0.333	-2.812	0.115
51	-2.76	-3.2922	0.0792	0.5336	0.339	1.576	0.023
52	-1.73	-2.1414	0.1385	0.4127	0.319	1.294	0.053
53	-2.14	-2.7666	0.1020	0.6243	0.332	1.878	0.055
54	-3.12	-3.1009	0.1030	-0.0172	0.332	-0.052	0.000
55	-2.94	-2.7471	0.0965	-0.1893	0.334	-0.567	0.004
56	-2.31	-2.6423	0.0802	0.3334	0.338	0.985	0.009
57	-2.80	-3.2381	0.0857	0.4345	0.337	1.289	0.018
58	-2.97	-2.9620	0.0580	-0.0118	0.343	-0.034	0.000
59	-3.26	-2.9223	0.0669	-0.3333	0.341	-0.977	0.006
60	-1.60	-1.6572	0.1234	0.0572	0.325	0.176	0.001
61	-3.05	-2.7886	0.0652	-0.2581	0.342	-0.756	0.003
62	-3.40	-3.2671	0.1147	-0.1281	0.328	-0.390	0.003

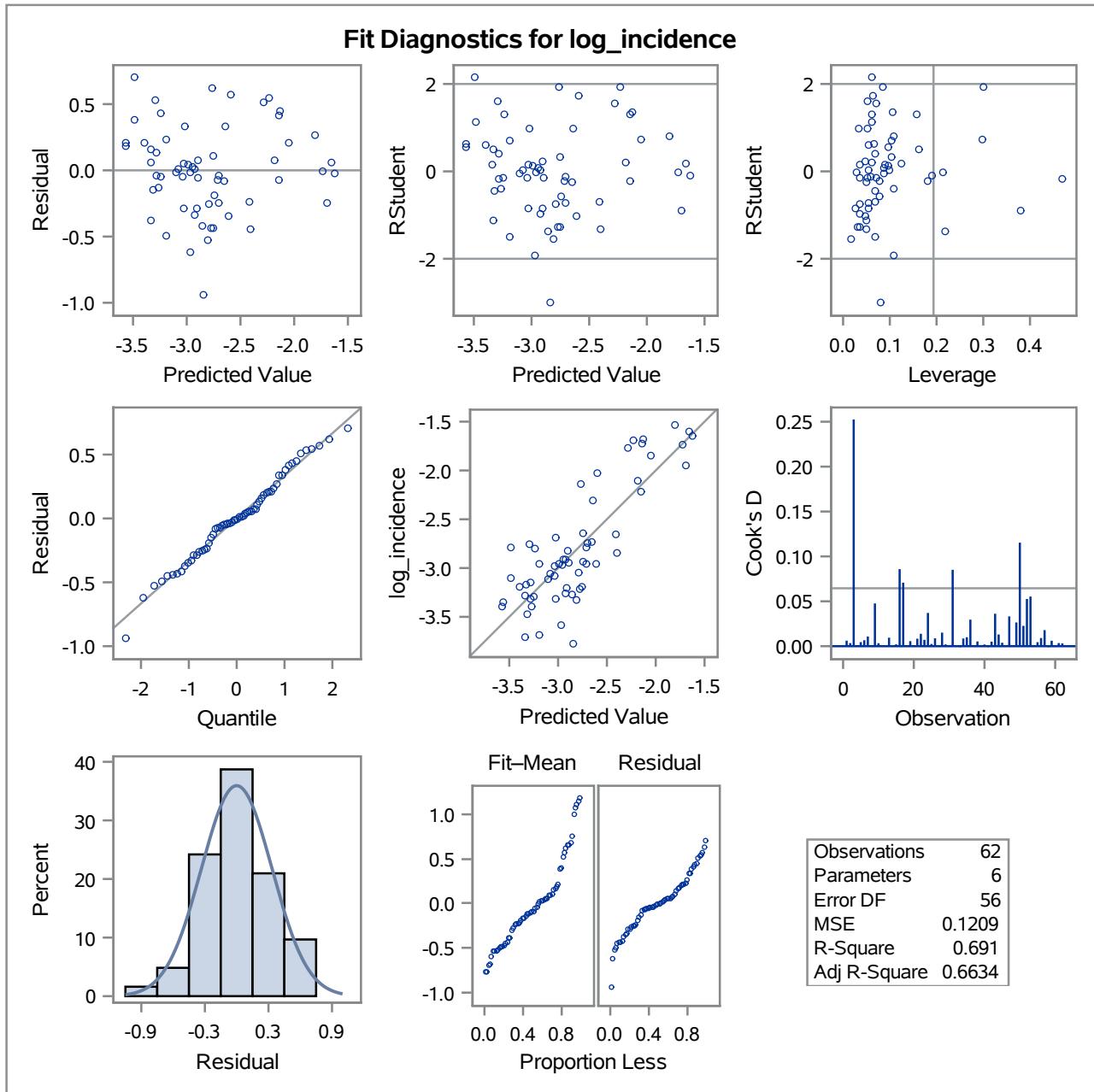
**The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence**

Studentized Residuals and Cook's D for log_incidence

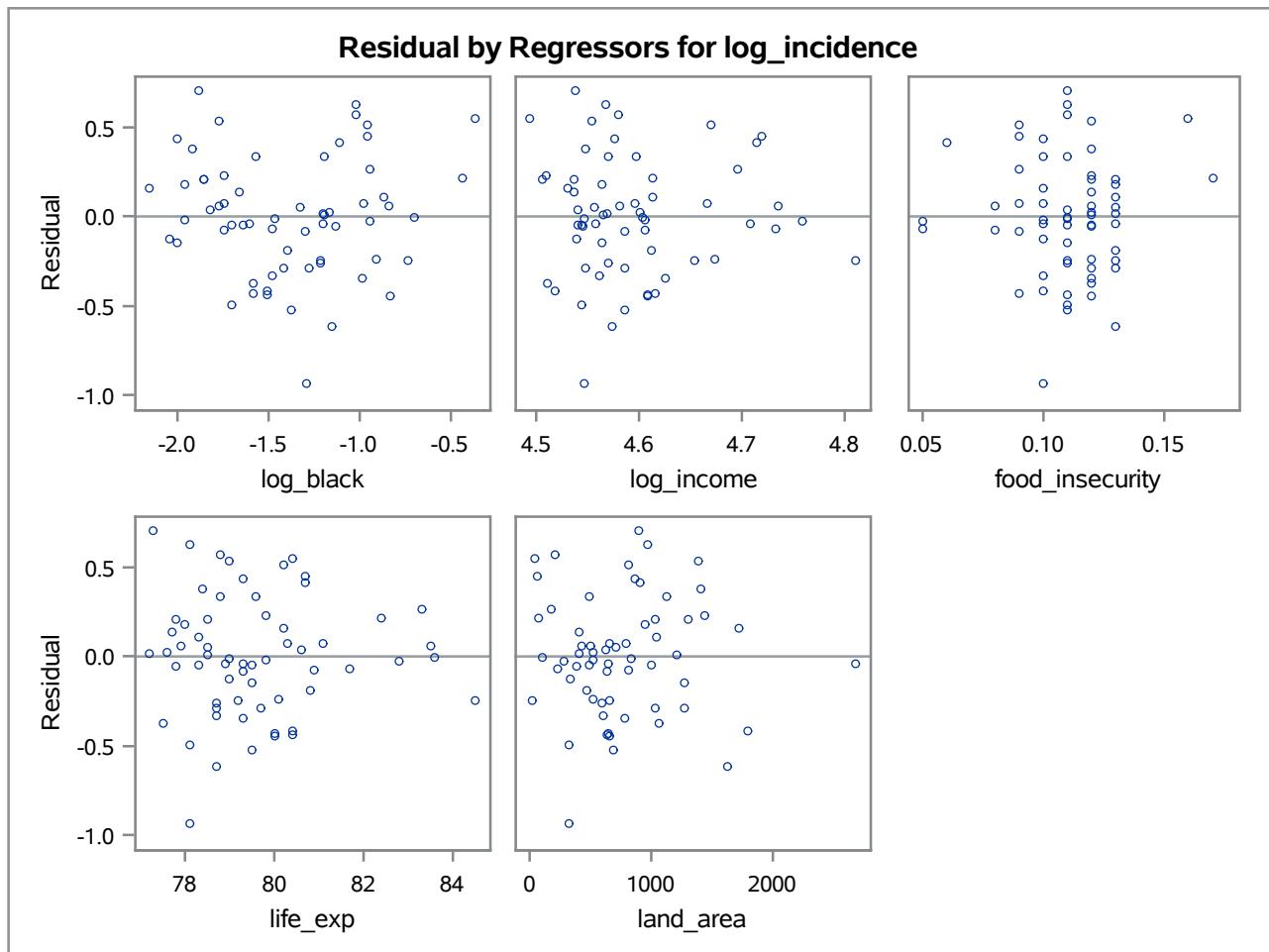


The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Sum of Residuals	0
Sum of Squared Residuals	6.77077
Predicted Residual SS (PRESS)	8.30618



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	15.13260	3.78315	31.81	<.0001
Error	57	6.77985	0.11894		
Corrected Total	61	21.91246			

Root MSE	0.34488	R-Square	0.6906
Dependent Mean	-2.80151	Adj R-Sq	0.6689
Coeff Var	-12.31062		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-11.68752	2.87309	-4.07	0.0001	0
log_black	1	0.73132	0.13326	5.49	<.0001	1.58231
food_insecurity	1	-6.41021	2.37808	-2.70	0.0092	1.25987
life_exp	1	0.13411	0.03348	4.01	0.0002	1.51541
land_area	1	-0.00009705	0.00010193	-0.95	0.3451	1.28360

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

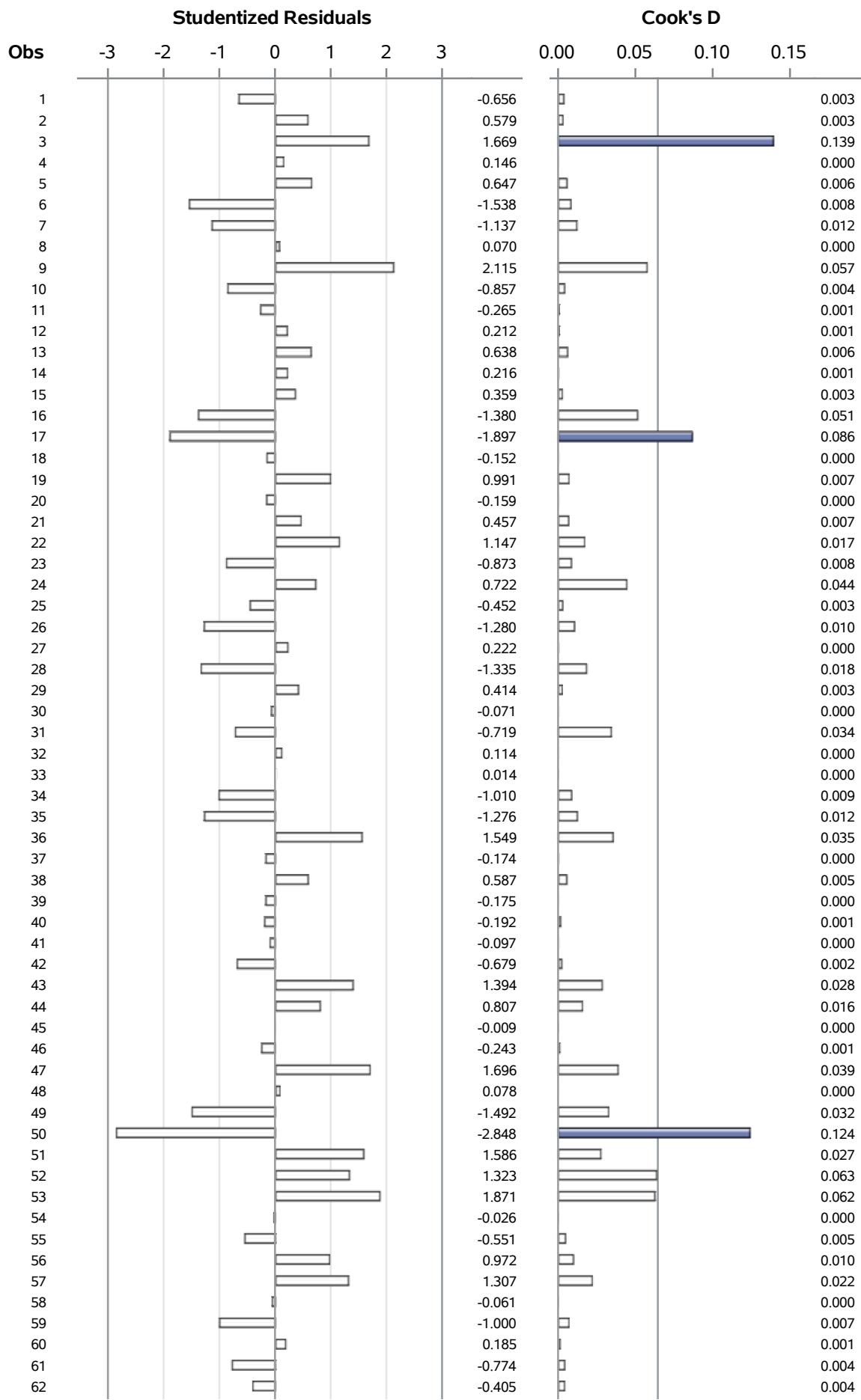
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	-2.65	-2.4286	0.0681	-0.2218	0.338	-0.656	0.003
2	-3.19	-3.3851	0.0723	0.1954	0.337	0.579	0.003
3	-1.69	-2.2031	0.1540	0.5151	0.309	1.669	0.139
4	-2.98	-3.0331	0.0651	0.0494	0.339	0.146	0.000
5	-3.35	-3.5701	0.0858	0.2160	0.334	0.647	0.006
6	-3.33	-2.8051	0.0445	-0.5259	0.342	-1.538	0.008
7	-3.71	-3.3255	0.0726	-0.3835	0.337	-1.137	0.012
8	-3.06	-3.0854	0.1028	0.0232	0.329	0.070	0.000
9	-2.78	-3.4922	0.0845	0.7073	0.334	2.115	0.057
10	-3.20	-2.9078	0.0566	-0.2915	0.340	-0.857	0.004
11	-2.73	-2.6429	0.0715	-0.0894	0.337	-0.265	0.001
12	-3.28	-3.3524	0.0878	0.0707	0.334	0.212	0.001
13	-2.96	-3.1710	0.0899	0.2126	0.333	0.638	0.006
14	-2.11	-2.1814	0.0849	0.0722	0.334	0.216	0.001
15	-2.64	-2.7575	0.1049	0.1179	0.329	0.359	0.003
16	-3.27	-2.8238	0.1188	-0.4469	0.324	-1.380	0.051
17	-3.59	-2.9694	0.1129	-0.6182	0.326	-1.897	0.086
18	-3.30	-3.2468	0.0797	-0.0509	0.336	-0.152	0.000
19	-2.68	-3.0201	0.0636	0.3359	0.339	0.991	0.007
20	-2.74	-2.6884	0.0692	-0.0537	0.338	-0.159	0.000
21	-3.17	-3.3158	0.1286	0.1461	0.320	0.457	0.007
22	-3.10	-3.4845	0.0845	0.3835	0.334	1.147	0.017
23	-3.32	-3.0227	0.0791	-0.2931	0.336	-0.873	0.008
24	-1.84	-2.0521	0.1881	0.2086	0.289	0.722	0.044
25	-3.47	-3.3175	0.0901	-0.1506	0.333	-0.452	0.003
26	-3.21	-2.7751	0.0605	-0.4347	0.340	-1.280	0.010
27	-2.82	-2.8993	0.0750	0.0746	0.337	0.222	0.000
28	-2.85	-2.3988	0.0761	-0.4490	0.336	-1.335	0.018
29	-3.15	-3.2880	0.0901	0.1379	0.333	0.414	0.003
30	-1.65	-1.6242	0.1496	-0.0220	0.311	-0.071	0.000
31	-1.95	-1.7305	0.1720	-0.2150	0.299	-0.719	0.034
32	-2.92	-2.9546	0.0901	0.0380	0.333	0.114	0.000
33	-2.92	-2.9201	0.0804	0.004794	0.335	0.014	0.000

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	-2.96	-2.6165	0.0693	-0.3412	0.338	-1.010	0.009
35	-3.19	-2.7576	0.0654	-0.4320	0.339	-1.276	0.012
36	-1.77	-2.2860	0.0902	0.5158	0.333	1.549	0.035
37	-2.95	-2.8882	0.0912	-0.0577	0.333	-0.174	0.000
38	-3.39	-3.5853	0.0928	0.1950	0.332	0.587	0.005
39	-3.09	-3.0265	0.0549	-0.0596	0.340	-0.175	0.000
40	-2.22	-2.1573	0.1399	-0.0604	0.315	-0.192	0.001
41	-1.73	-1.7030	0.1263	-0.0312	0.321	-0.097	0.000
42	-2.95	-2.7230	0.0527	-0.2316	0.341	-0.679	0.002
43	-1.68	-2.1459	0.0896	0.4643	0.333	1.394	0.028
44	-1.54	-1.7999	0.1128	0.2629	0.326	0.807	0.016
45	-3.32	-3.3180	0.1911	-0.002695	0.287	-0.009	0.000
46	-2.79	-2.7057	0.0915	-0.0808	0.333	-0.243	0.001
47	-2.02	-2.5892	0.0865	0.5663	0.334	1.696	0.039
48	-2.95	-2.9779	0.0955	0.0258	0.331	0.078	0.000
49	-3.69	-3.1933	0.0897	-0.4969	0.333	-1.492	0.032
50	-3.78	-2.8314	0.0918	-0.9469	0.332	-2.848	0.124
51	-2.76	-3.2914	0.0785	0.5328	0.336	1.586	0.027
52	-1.73	-2.1485	0.1349	0.4198	0.317	1.323	0.063
53	-2.14	-2.7605	0.0987	0.6182	0.330	1.871	0.062
54	-3.12	-3.1095	0.0973	-0.008538	0.331	-0.026	0.000
55	-2.94	-2.7535	0.0930	-0.1830	0.332	-0.551	0.005
56	-2.31	-2.6358	0.0760	0.3270	0.336	0.972	0.010
57	-2.80	-3.2407	0.0845	0.4370	0.334	1.307	0.022
58	-2.97	-2.9529	0.0470	-0.0210	0.342	-0.061	0.000
59	-3.26	-2.9164	0.0628	-0.3392	0.339	-1.000	0.007
60	-1.60	-1.6597	0.1220	0.0597	0.323	0.185	0.001
61	-3.05	-2.7843	0.0628	-0.2624	0.339	-0.774	0.004
62	-3.40	-3.2630	0.1129	-0.1321	0.326	-0.405	0.004

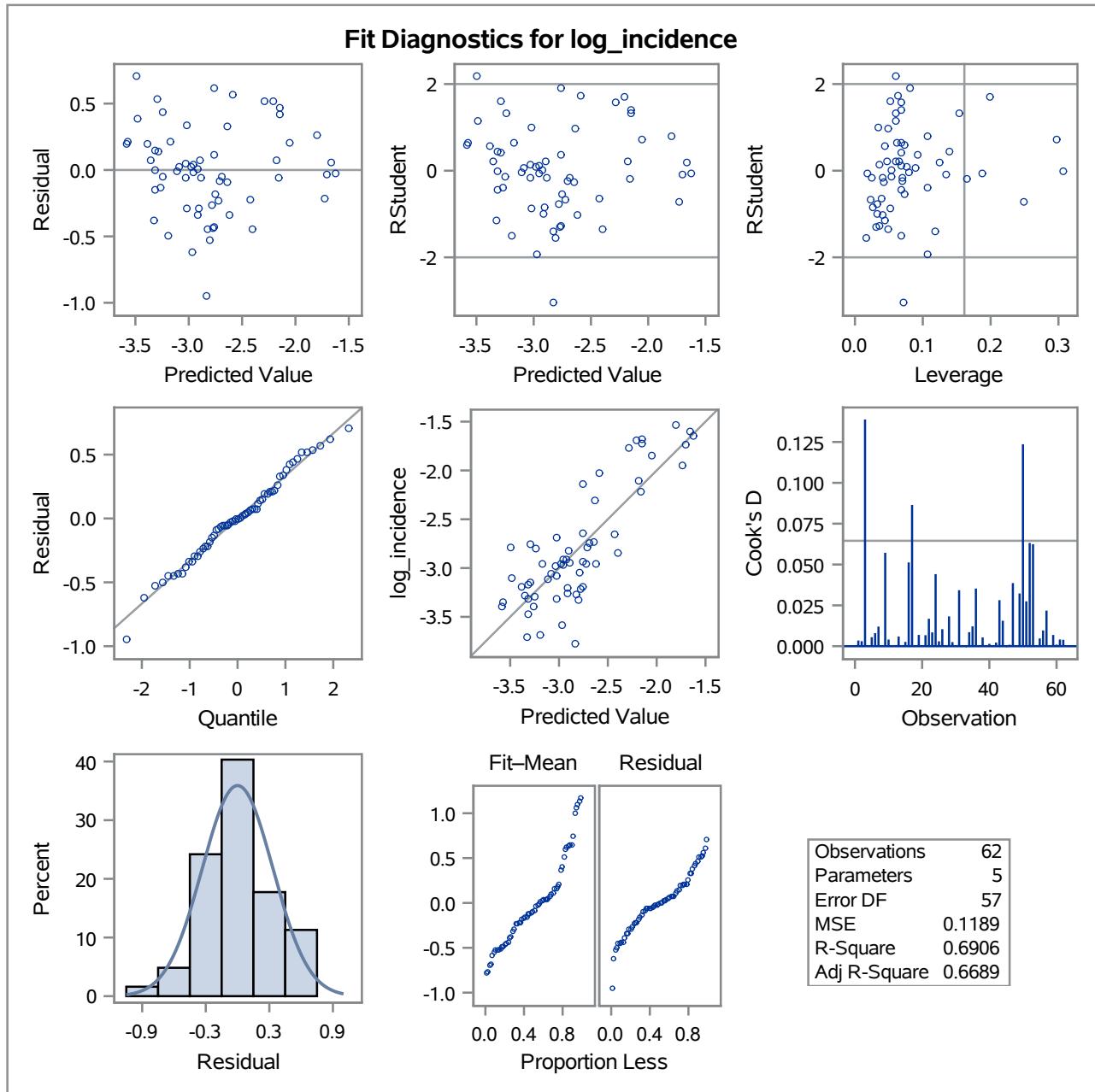
**The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence**

Studentized Residuals and Cook's D for log_incidence

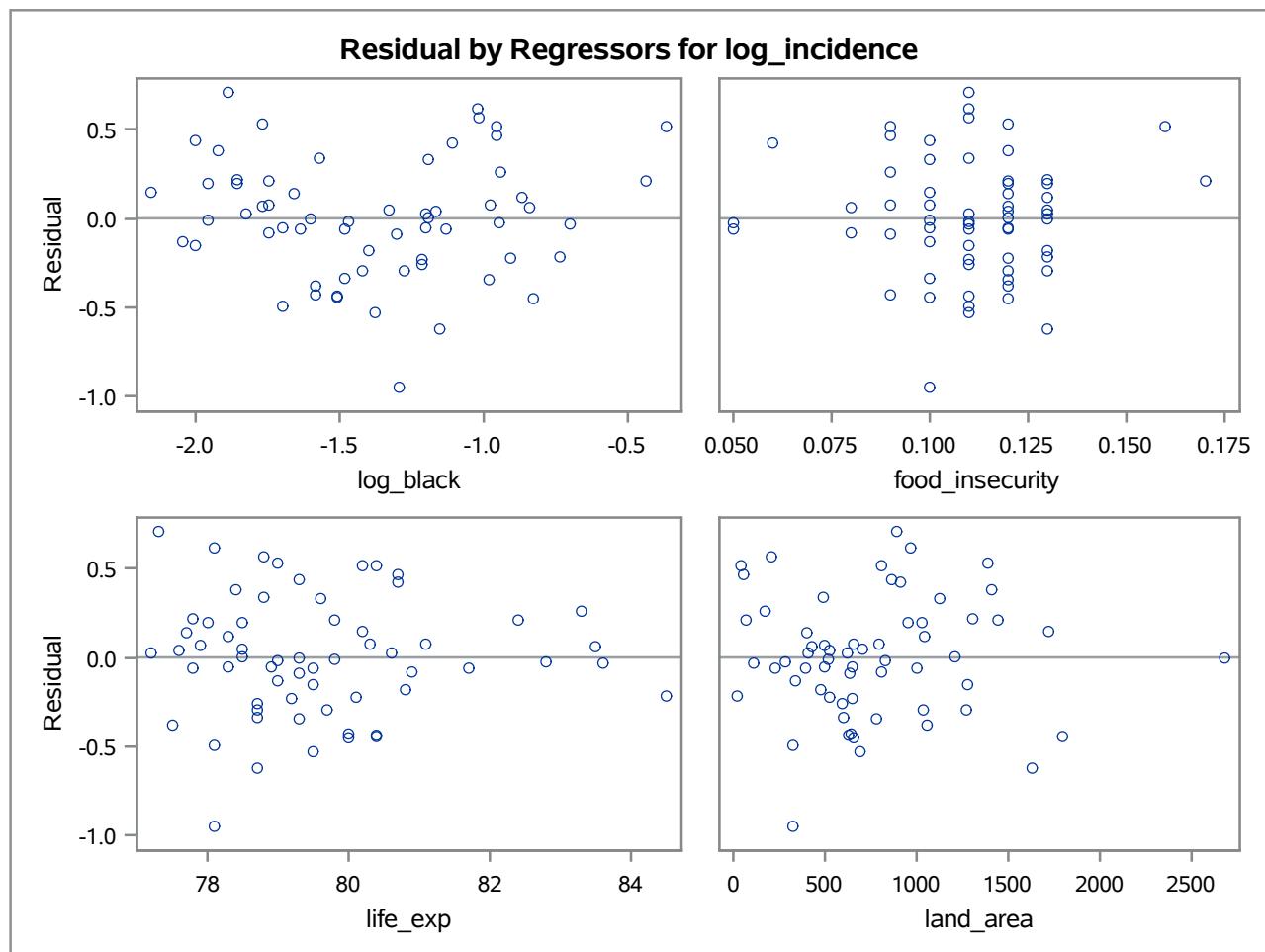


The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Sum of Residuals	0
Sum of Squared Residuals	6.77985
Predicted Residual SS (PRESS)	7.95317



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	15.02849	3.75712	31.11	<.0001
Error	57	6.88397	0.12077		
Corrected Total	61	21.91246			

Root MSE	0.34752	R-Square	0.6858
Dependent Mean	-2.80151	Adj R-Sq	0.6638
Coeff Var	-12.40478		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-12.47715	4.50960	-2.77	0.0076	0
log_black	1	0.76881	0.13542	5.68	<.0001	1.60927
log_income	1	0.18047	1.03020	0.18	0.8616	2.44888
food_insecurity	1	-6.53018	2.63827	-2.48	0.0163	1.52720
life_exp	1	0.13350	0.03836	3.48	0.0010	1.95906

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

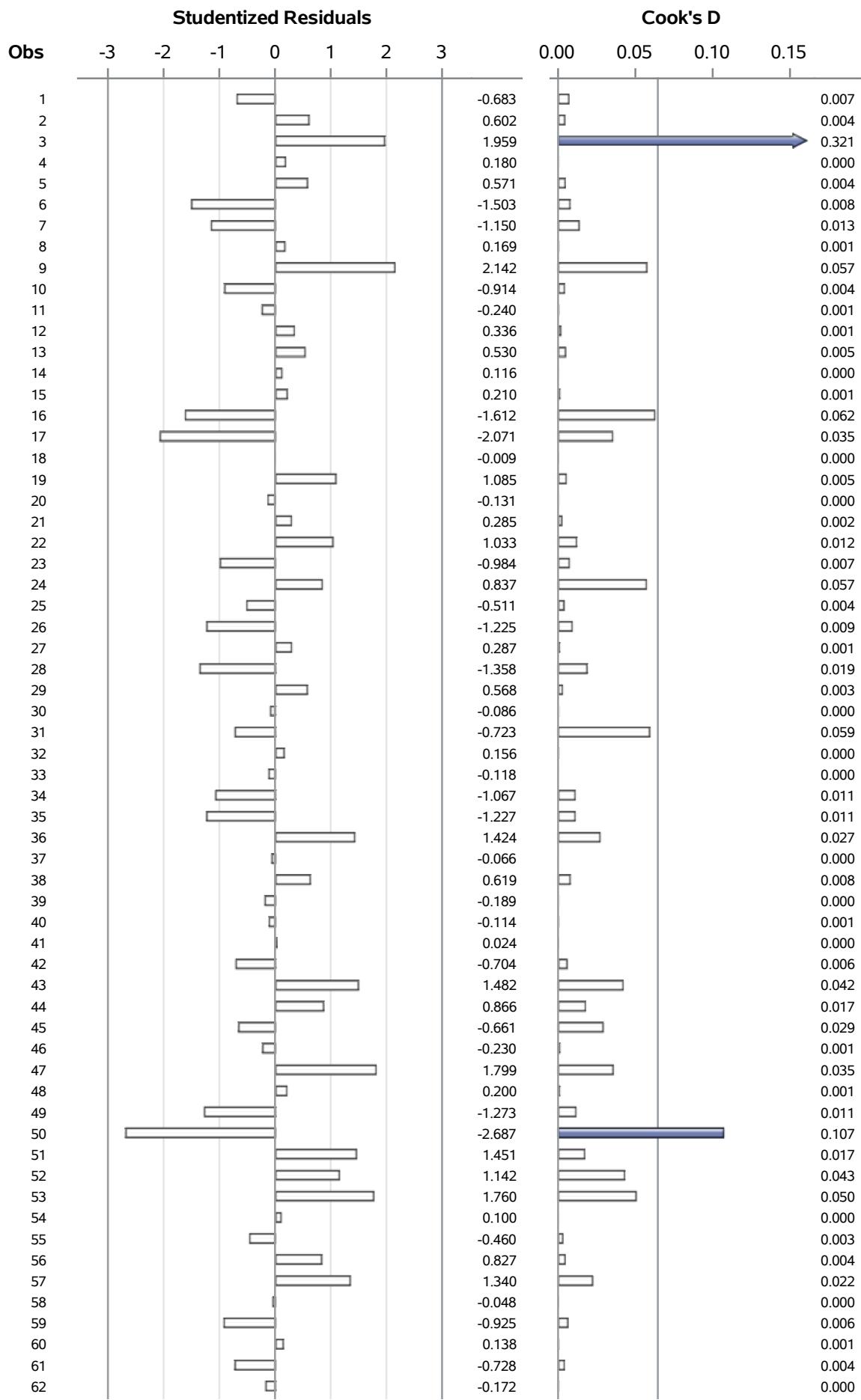
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	-2.65	-2.4211	0.0905	-0.2292	0.336	-0.683	0.007
2	-3.19	-3.3932	0.0805	0.2035	0.338	0.602	0.004
3	-1.69	-2.2596	0.1887	0.5715	0.292	1.959	0.321
4	-2.98	-3.0450	0.0643	0.0613	0.342	0.180	0.000
5	-3.35	-3.5464	0.0867	0.1923	0.337	0.571	0.004
6	-3.33	-2.8131	0.0447	-0.5179	0.345	-1.503	0.008
7	-3.71	-3.3191	0.0765	-0.3899	0.339	-1.150	0.013
8	-3.06	-3.1186	0.1002	0.0563	0.333	0.169	0.001
9	-2.78	-3.5071	0.0840	0.7221	0.337	2.142	0.057
10	-3.20	-2.8853	0.0521	-0.3140	0.344	-0.914	0.004
11	-2.73	-2.6511	0.0781	-0.0812	0.339	-0.240	0.001
12	-3.28	-3.3949	0.0860	0.1132	0.337	0.336	0.001
13	-2.96	-3.1352	0.0973	0.1767	0.334	0.530	0.005
14	-2.11	-2.1486	0.0784	0.0393	0.339	0.116	0.000
15	-2.64	-2.7093	0.1041	0.0697	0.332	0.210	0.001
16	-3.27	-2.7414	0.1136	-0.5292	0.328	-1.612	0.062
17	-3.59	-2.8822	0.0687	-0.7054	0.341	-2.071	0.035
18	-3.30	-3.2946	0.0629	-0.003133	0.342	-0.009	0.000
19	-2.68	-3.0571	0.0508	0.3729	0.344	1.085	0.005
20	-2.74	-2.6978	0.0838	-0.0443	0.337	-0.131	0.000
21	-3.17	-3.2626	0.1216	0.0929	0.326	0.285	0.002
22	-3.10	-3.4505	0.0796	0.3494	0.338	1.033	0.012
23	-3.32	-2.9798	0.0650	-0.3361	0.341	-0.984	0.007
24	-1.84	-2.0891	0.1863	0.2455	0.293	0.837	0.057
25	-3.47	-3.2964	0.0881	-0.1717	0.336	-0.511	0.004
26	-3.21	-2.7903	0.0588	-0.4195	0.343	-1.225	0.009
27	-2.82	-2.9222	0.0720	0.0975	0.340	0.287	0.001
28	-2.85	-2.3872	0.0761	-0.4607	0.339	-1.358	0.019
29	-3.15	-3.3435	0.0689	0.1934	0.341	0.568	0.003
30	-1.65	-1.6193	0.1517	-0.0269	0.313	-0.086	0.000
31	-1.95	-1.7444	0.2084	-0.2011	0.278	-0.723	0.059
32	-2.92	-2.9685	0.0984	0.0519	0.333	0.156	0.000
33	-2.92	-2.8750	0.0648	-0.0403	0.341	-0.118	0.000

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	-2.96	-2.5952	0.0736	-0.3625	0.340	-1.067	0.011
35	-3.19	-2.7707	0.0644	-0.4189	0.342	-1.227	0.011
36	-1.77	-2.2496	0.0866	0.4793	0.337	1.424	0.027
37	-2.95	-2.9236	0.0874	-0.0223	0.336	-0.066	0.000
38	-3.39	-3.5954	0.1048	0.2051	0.331	0.619	0.008
39	-3.09	-3.0217	0.0648	-0.0644	0.341	-0.189	0.000
40	-2.22	-2.1817	0.1427	-0.0360	0.317	-0.114	0.001
41	-1.73	-1.7416	0.1604	0.007345	0.308	0.024	0.000
42	-2.95	-2.7164	0.0798	-0.2382	0.338	-0.704	0.006
43	-1.68	-2.1738	0.1022	0.4922	0.332	1.482	0.042
44	-1.54	-1.8220	0.1120	0.2850	0.329	0.866	0.017
45	-3.32	-3.1216	0.1733	-0.1990	0.301	-0.661	0.029
46	-2.79	-2.7098	0.0963	-0.0767	0.334	-0.230	0.001
47	-2.02	-2.6317	0.0790	0.6088	0.338	1.799	0.035
48	-2.95	-3.0184	0.1037	0.0663	0.332	0.200	0.001
49	-3.69	-3.2553	0.0638	-0.4349	0.342	-1.273	0.011
50	-3.78	-2.8772	0.0912	-0.9012	0.335	-2.687	0.107
51	-2.76	-3.2530	0.0680	0.4944	0.341	1.451	0.017
52	-1.73	-2.0967	0.1305	0.3680	0.322	1.142	0.043
53	-2.14	-2.7308	0.0950	0.5885	0.334	1.760	0.050
54	-3.12	-3.1517	0.0886	0.0336	0.336	0.100	0.000
55	-2.94	-2.7819	0.0895	-0.1545	0.336	-0.460	0.003
56	-2.31	-2.5918	0.0608	0.2829	0.342	0.827	0.004
57	-2.80	-3.2555	0.0837	0.4519	0.337	1.340	0.022
58	-2.97	-2.9575	0.0577	-0.0163	0.343	-0.048	0.000
59	-3.26	-2.9396	0.0644	-0.3160	0.342	-0.925	0.006
60	-1.60	-1.6449	0.1227	0.0449	0.325	0.138	0.001
61	-3.05	-2.7982	0.0644	-0.2485	0.341	-0.728	0.004
62	-3.40	-3.3374	0.0887	-0.0578	0.336	-0.172	0.000

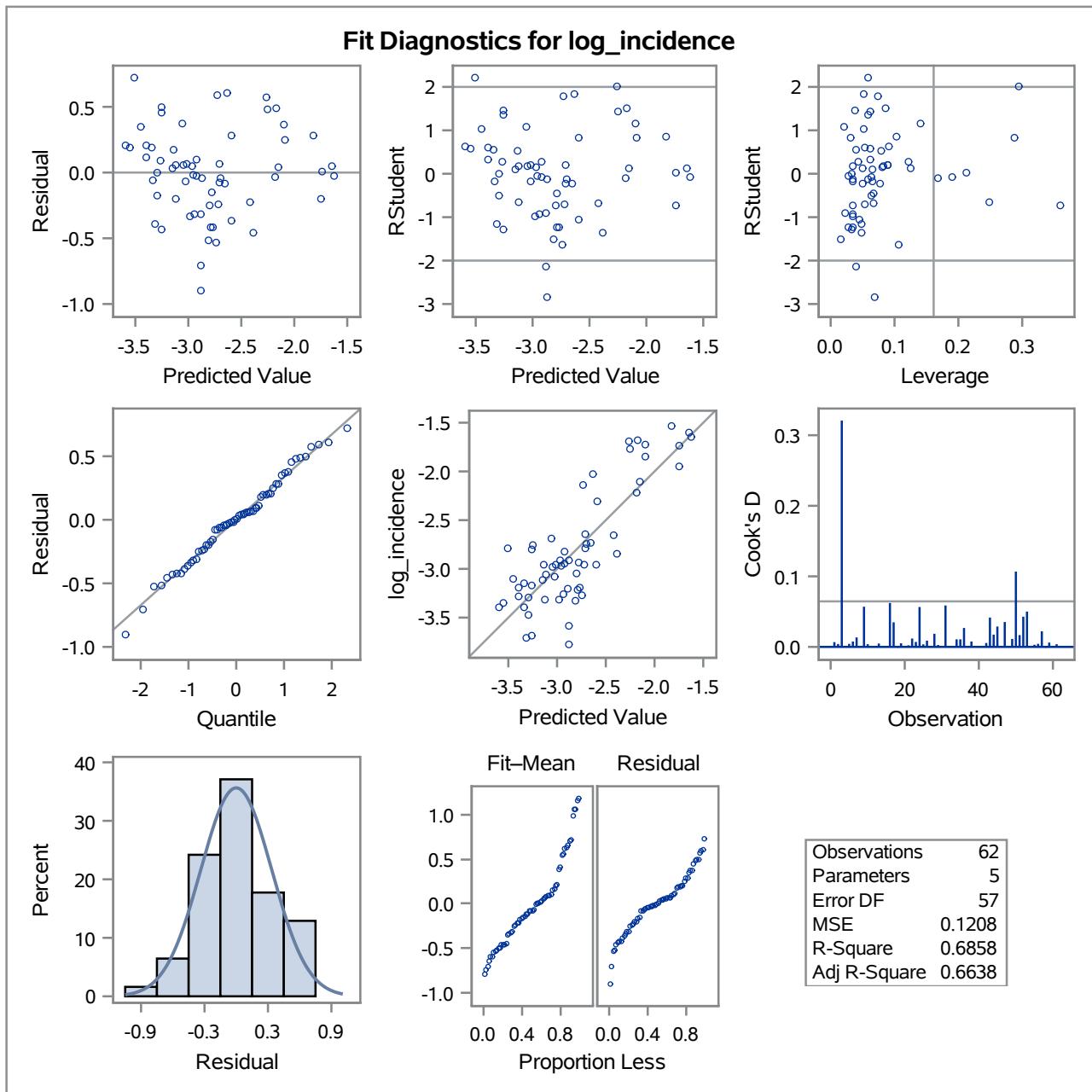
**The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence**

Studentized Residuals and Cook's D for log_incidence

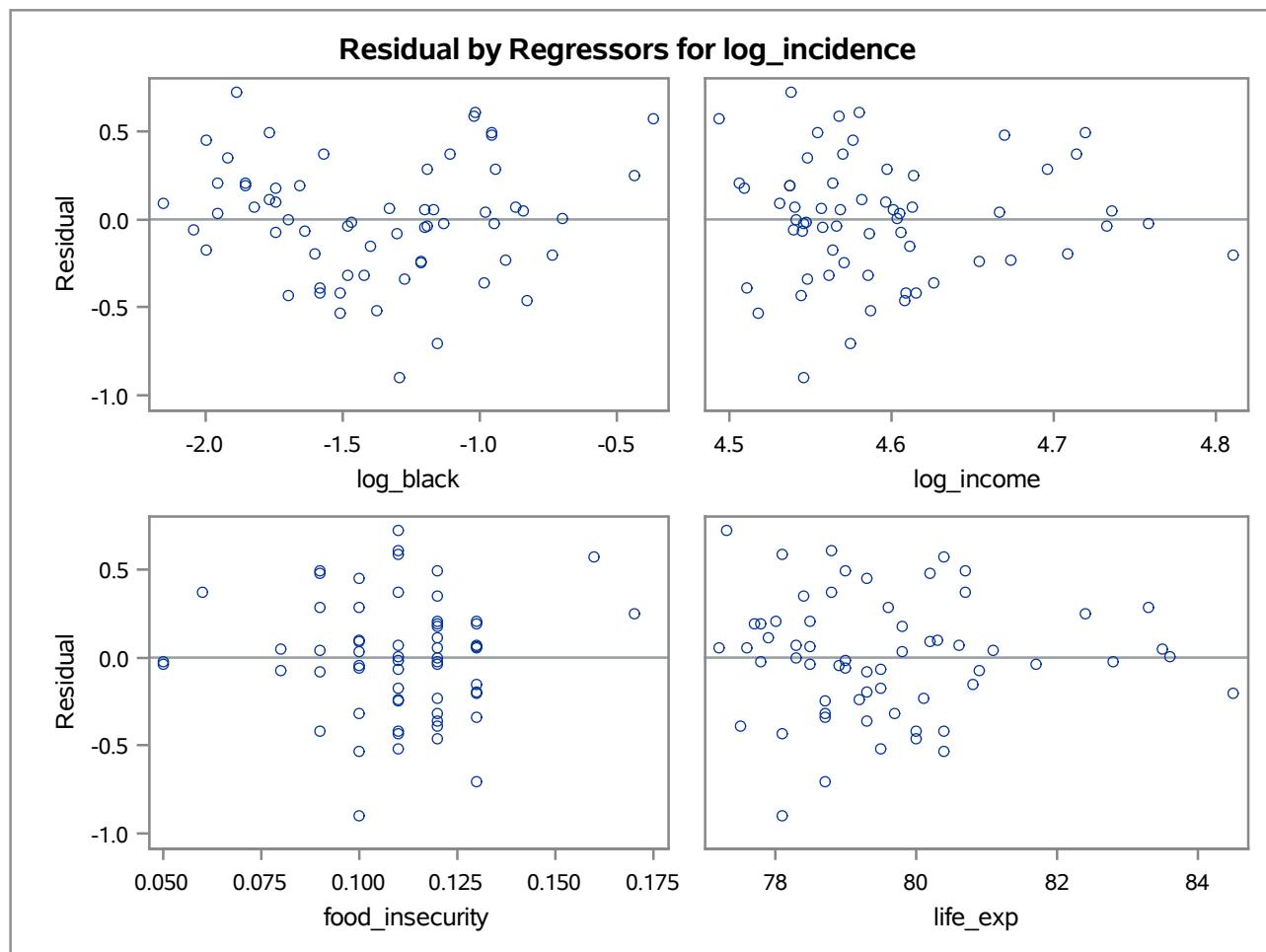


The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Sum of Residuals	0
Sum of Squared Residuals	6.88397
Predicted Residual SS (PRESS)	8.16691



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

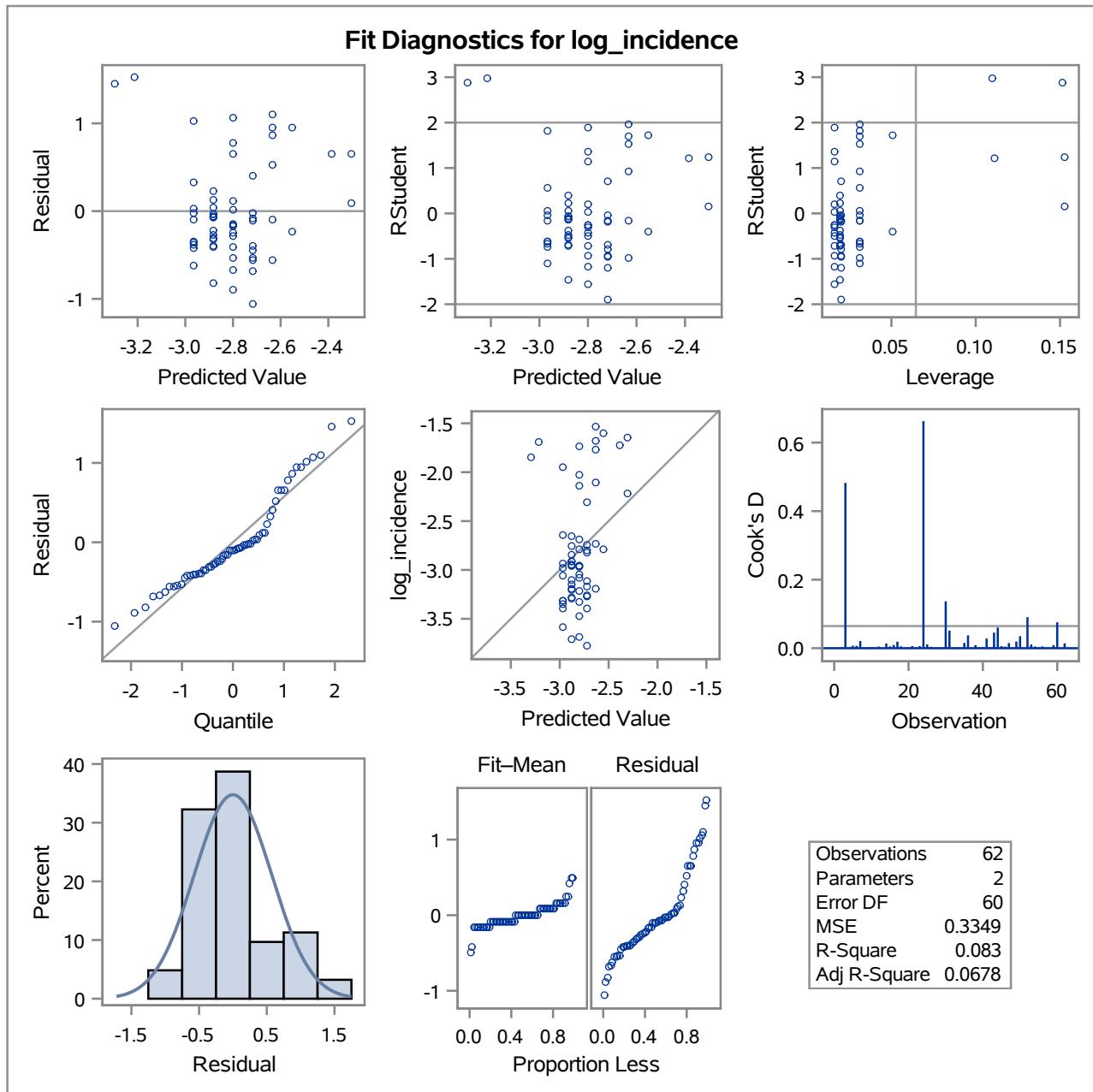
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.81950	1.81950	5.43	0.0231
Error	60	20.09295	0.33488		
Corrected Total	61	21.91246			

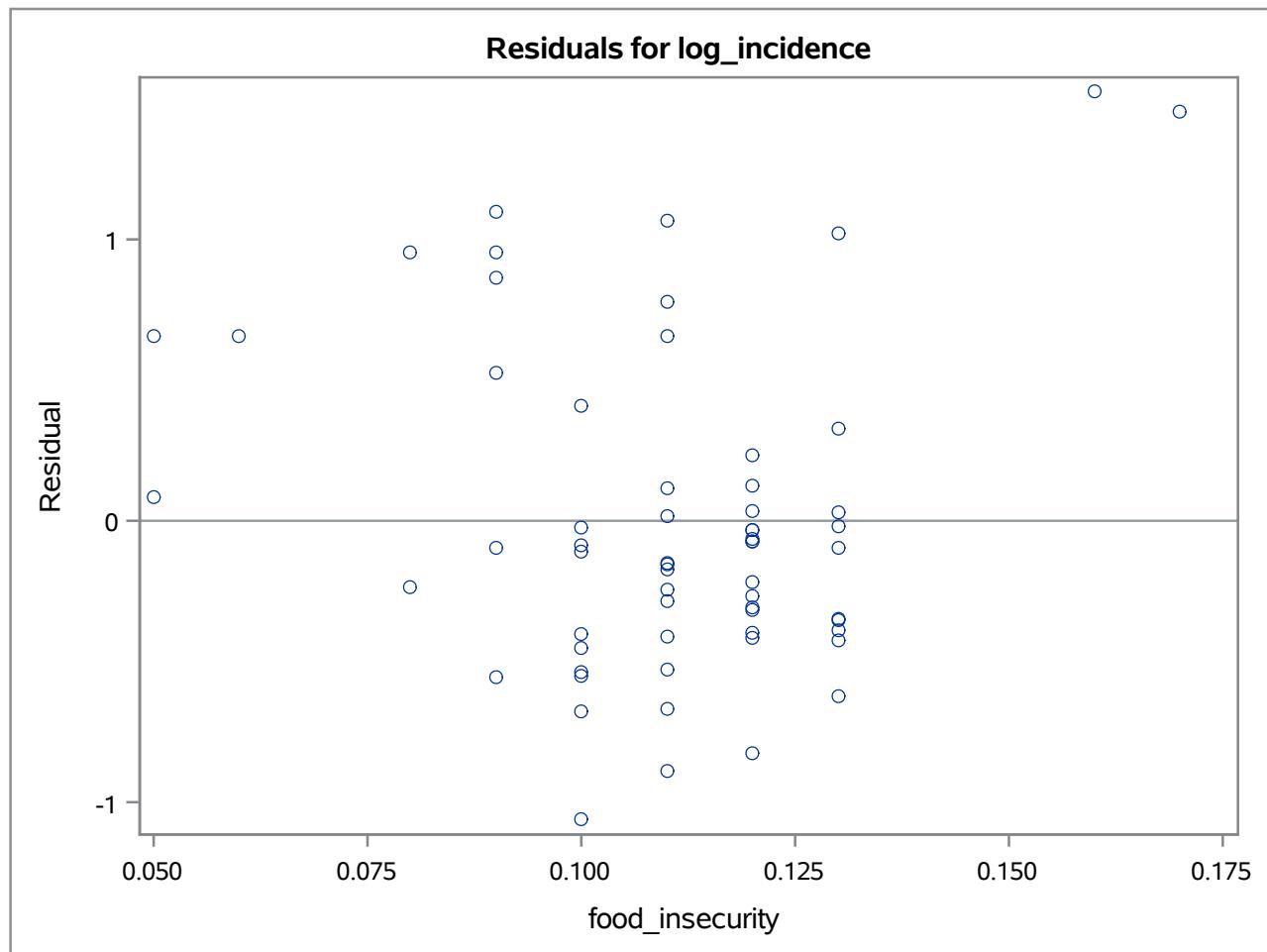
Root MSE	0.57869	R-Square	0.0830
Dependent Mean	-2.80151	Adj R-Sq	0.0678
Coeff Var	-20.65634		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.88867	0.39846	-4.74	<.0001
food_insecurity	1	-8.28642	3.55497	-2.33	0.0231

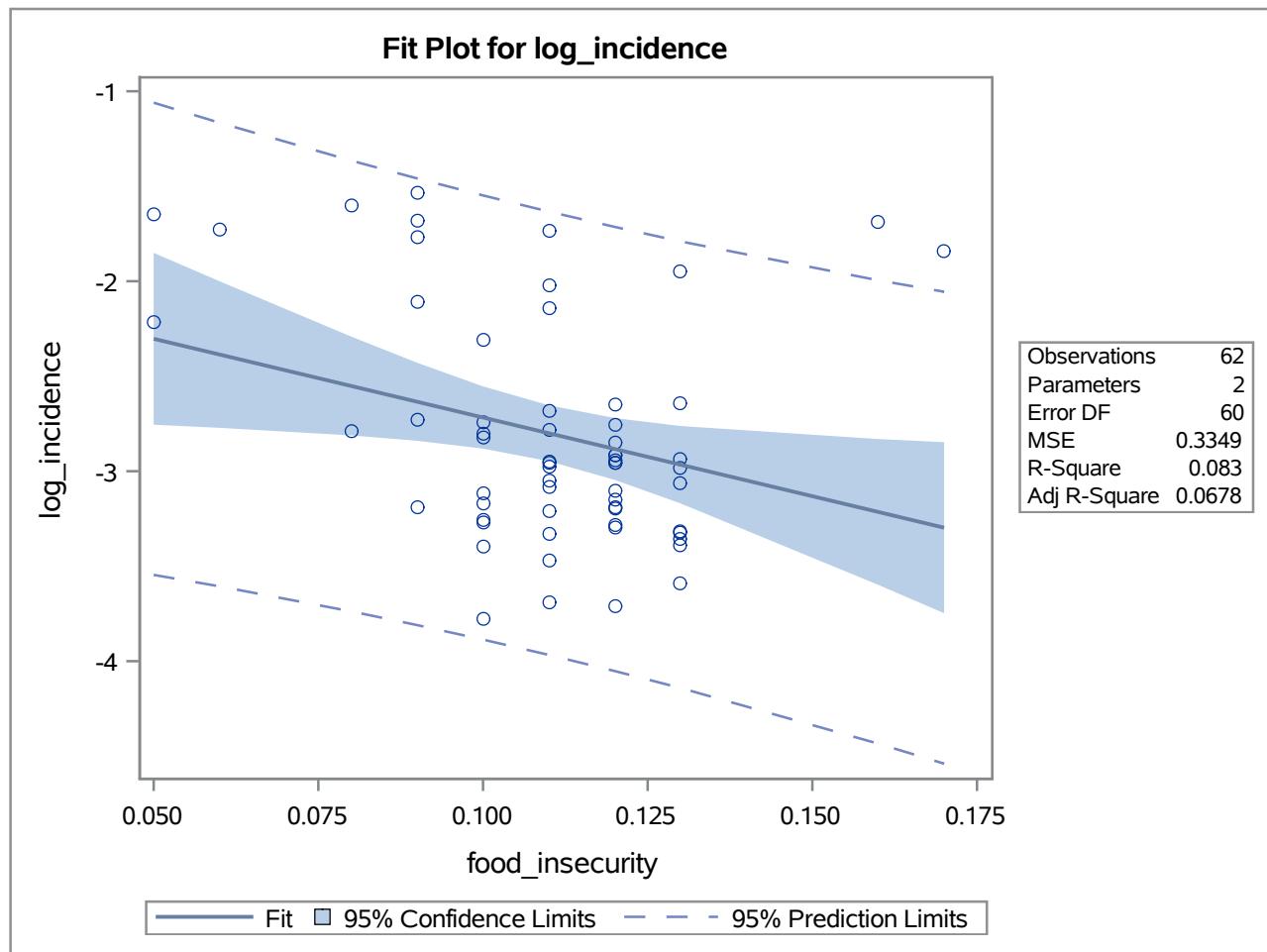
The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	5.45285	2.72642	9.77	0.0002
Error	59	16.45961	0.27898		
Corrected Total	61	21.91246			

Root MSE	0.52818	R-Square	0.2488
Dependent Mean	-2.80151	Adj R-Sq	0.2234
Coeff Var	-18.85346		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	-0.79193	0.47394	-1.67	0.1000	0
Unemployment	1	-39.78983	11.02562	-3.61	0.0006	1.28608
food_insecurity	1	-2.02332	3.67967	-0.55	0.5845	1.28608

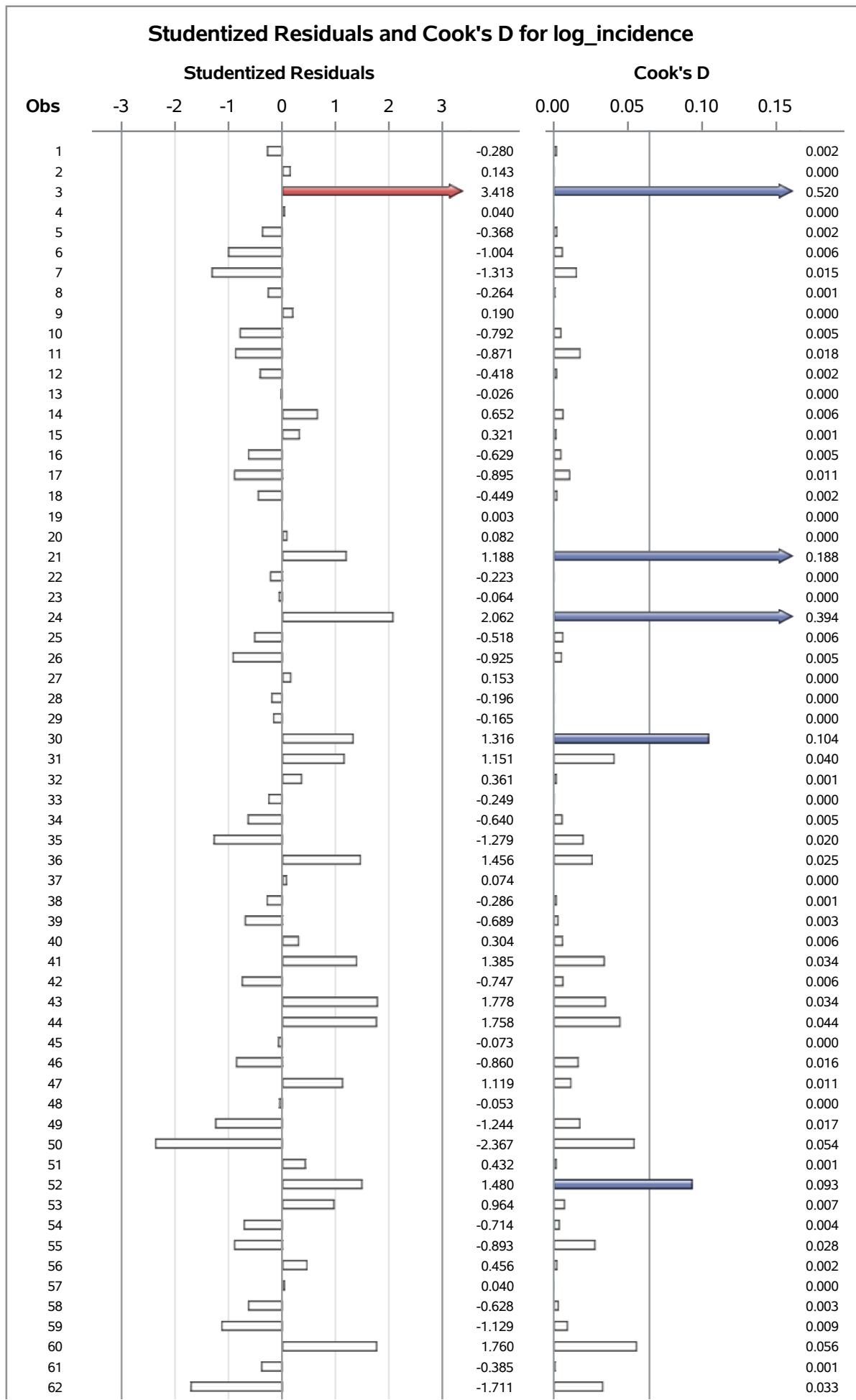
The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	-2.65	-2.5070	0.1280	-0.1434	0.512	-0.280	0.002
2	-3.19	-3.2630	0.1288	0.0733	0.512	0.143	0.000
3	-1.69	-3.3837	0.1812	1.6956	0.496	3.418	0.520
4	-2.98	-3.0047	0.0936	0.0210	0.520	0.040	0.000
5	-3.35	-3.1638	0.1079	-0.1903	0.517	-0.368	0.002
6	-3.33	-2.8050	0.0671	-0.5260	0.524	-1.004	0.006
7	-3.71	-3.0242	0.0840	-0.6848	0.521	-1.313	0.015
8	-3.06	-2.9251	0.0937	-0.1372	0.520	-0.264	0.001
9	-2.78	-2.8846	0.0710	0.0997	0.523	0.190	0.000
10	-3.20	-2.7855	0.0791	-0.4138	0.522	-0.792	0.005
11	-2.73	-2.2871	0.1343	-0.4451	0.511	-0.871	0.018
12	-3.28	-3.0640	0.0896	-0.2177	0.521	-0.418	0.002
13	-2.96	-2.9446	0.0762	-0.0138	0.523	-0.026	0.000
14	-2.11	-2.4463	0.1072	0.3370	0.517	0.652	0.006
15	-2.64	-2.8057	0.1030	0.1661	0.518	0.321	0.001
16	-3.27	-2.9440	0.0976	-0.3267	0.519	-0.629	0.005
17	-3.59	-3.1240	0.1028	-0.4635	0.518	-0.895	0.011
18	-3.30	-3.0640	0.0896	-0.2337	0.521	-0.449	0.002
19	-2.68	-2.6857	0.0742	0.001465	0.523	0.003	0.000
20	-2.74	-2.7848	0.0770	0.0427	0.523	0.082	0.000
21	-3.17	-3.7000	0.2824	0.5303	0.446	1.188	0.188
22	-3.10	-2.9844	0.0794	-0.1166	0.522	-0.223	0.000
23	-3.32	-3.2832	0.1280	-0.0327	0.512	-0.064	0.000
24	-1.84	-2.8071	0.2463	0.9635	0.467	2.062	0.394
25	-3.47	-3.2029	0.1302	-0.2652	0.512	-0.518	0.006
26	-3.21	-2.7255	0.0702	-0.4844	0.523	-0.925	0.005
27	-2.82	-2.9042	0.0909	0.0795	0.520	0.153	0.000
28	-2.85	-2.7457	0.0835	-0.1021	0.522	-0.196	0.000
29	-3.15	-3.0640	0.0896	-0.0861	0.521	-0.165	0.000
30	-1.65	-2.2857	0.2065	0.6395	0.486	1.316	0.104
31	-1.95	-2.5272	0.1530	0.5818	0.506	1.151	0.040
32	-2.92	-3.1038	0.0962	0.1872	0.519	0.361	0.001
33	-2.92	-2.7855	0.0791	-0.1298	0.522	-0.249	0.000

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

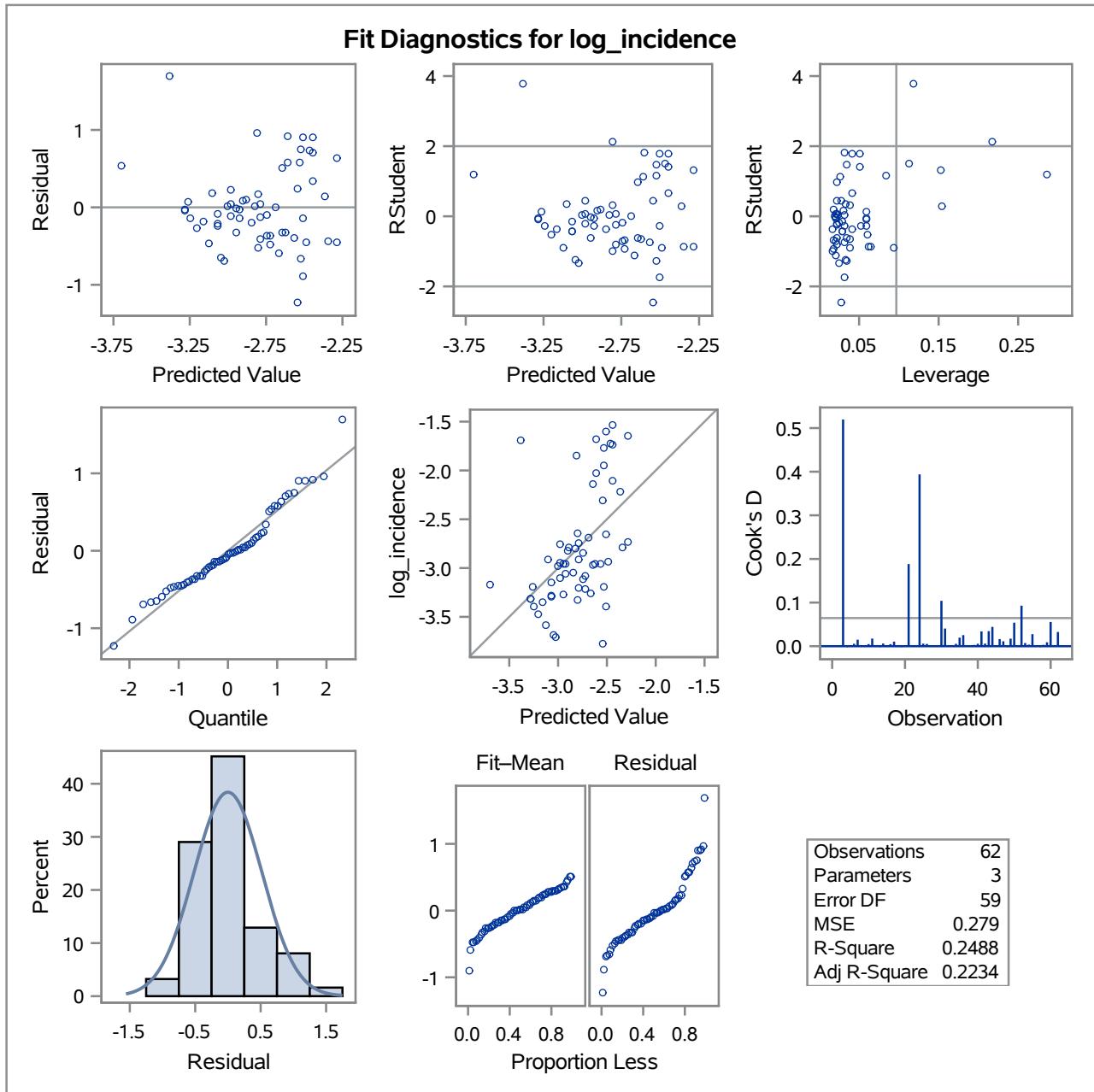
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	-2.96	-2.6263	0.1029	-0.3314	0.518	-0.640	0.005
35	-3.19	-2.5258	0.0984	-0.6638	0.519	-1.279	0.020
36	-1.77	-2.5258	0.0984	0.7555	0.519	1.456	0.025
37	-2.95	-2.9844	0.0794	0.0385	0.522	0.074	0.000
38	-3.39	-3.2434	0.1206	-0.1469	0.514	-0.286	0.001
39	-3.09	-2.7255	0.0702	-0.3607	0.523	-0.689	0.003
40	-2.22	-2.3653	0.2071	0.1476	0.486	0.304	0.006
41	-1.73	-2.4469	0.1187	0.7127	0.515	1.385	0.034
42	-2.95	-2.5663	0.0933	-0.3883	0.520	-0.747	0.006
43	-1.68	-2.6054	0.0940	0.9238	0.520	1.778	0.034
44	-1.54	-2.4463	0.1072	0.9092	0.517	1.758	0.044
45	-3.32	-3.2832	0.1280	-0.0375	0.512	-0.073	0.000
46	-2.79	-2.3464	0.1316	-0.4400	0.512	-0.860	0.016
47	-2.02	-2.6061	0.0860	0.5832	0.521	1.119	0.011
48	-2.95	-2.9244	0.0754	-0.0277	0.523	-0.053	0.000
49	-3.69	-3.0438	0.0952	-0.6464	0.520	-1.244	0.017
50	-3.78	-2.5461	0.0885	-1.2323	0.521	-2.367	0.054
51	-2.76	-2.9844	0.0794	0.2258	0.522	0.432	0.001
52	-1.73	-2.4651	0.1774	0.7364	0.497	1.480	0.093
53	-2.14	-2.6459	0.0795	0.5035	0.522	0.964	0.007
54	-3.12	-2.7450	0.0751	-0.3731	0.523	-0.714	0.004
55	-2.94	-2.4874	0.1619	-0.4490	0.503	-0.893	0.028
56	-2.31	-2.5461	0.0885	0.2372	0.521	0.456	0.002
57	-2.80	-2.8246	0.0804	0.0209	0.522	0.040	0.000
58	-2.97	-2.6459	0.0795	-0.3279	0.522	-0.628	0.003
59	-3.26	-2.6654	0.0761	-0.5901	0.523	-1.129	0.009
60	-1.60	-2.5056	0.1193	0.9056	0.515	1.760	0.056
61	-3.05	-2.8448	0.0682	-0.2019	0.524	-0.385	0.001
62	-3.40	-2.5063	0.0949	-0.8889	0.520	-1.711	0.033

**The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence**

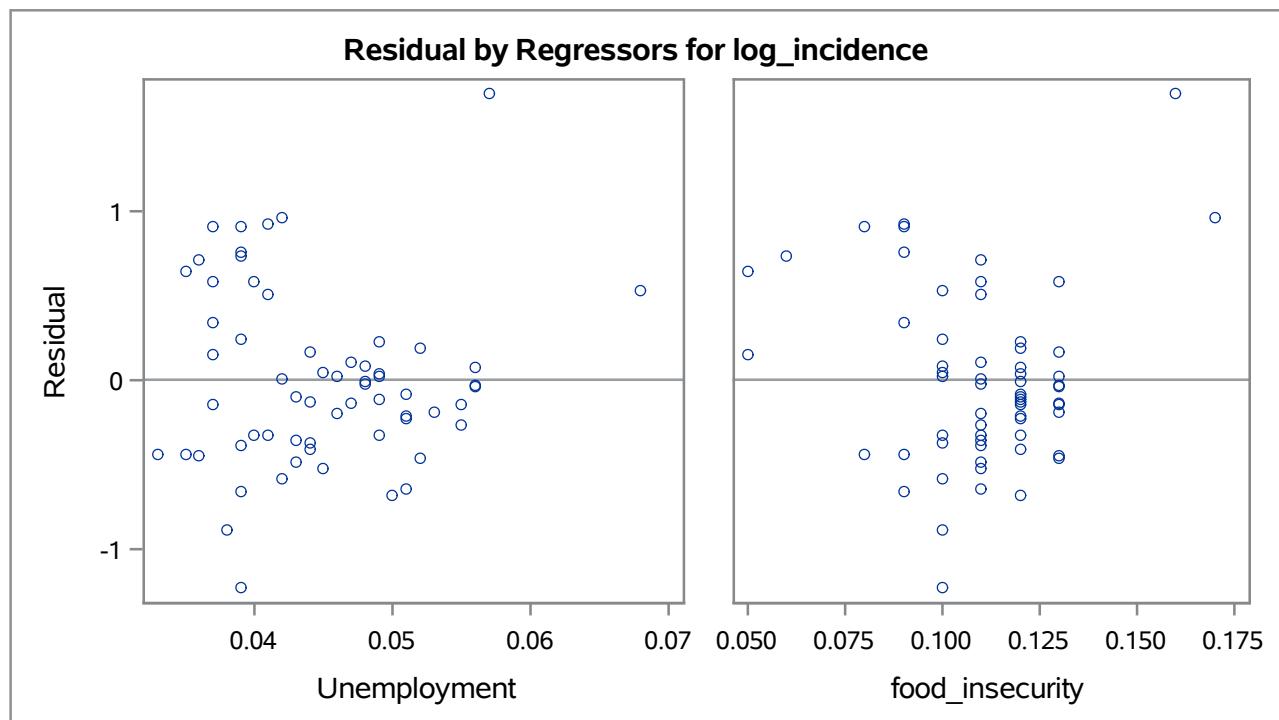


The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

Sum of Residuals	0
Sum of Squared Residuals	16.45961
Predicted Residual SS (PRESS)	19.34267



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence

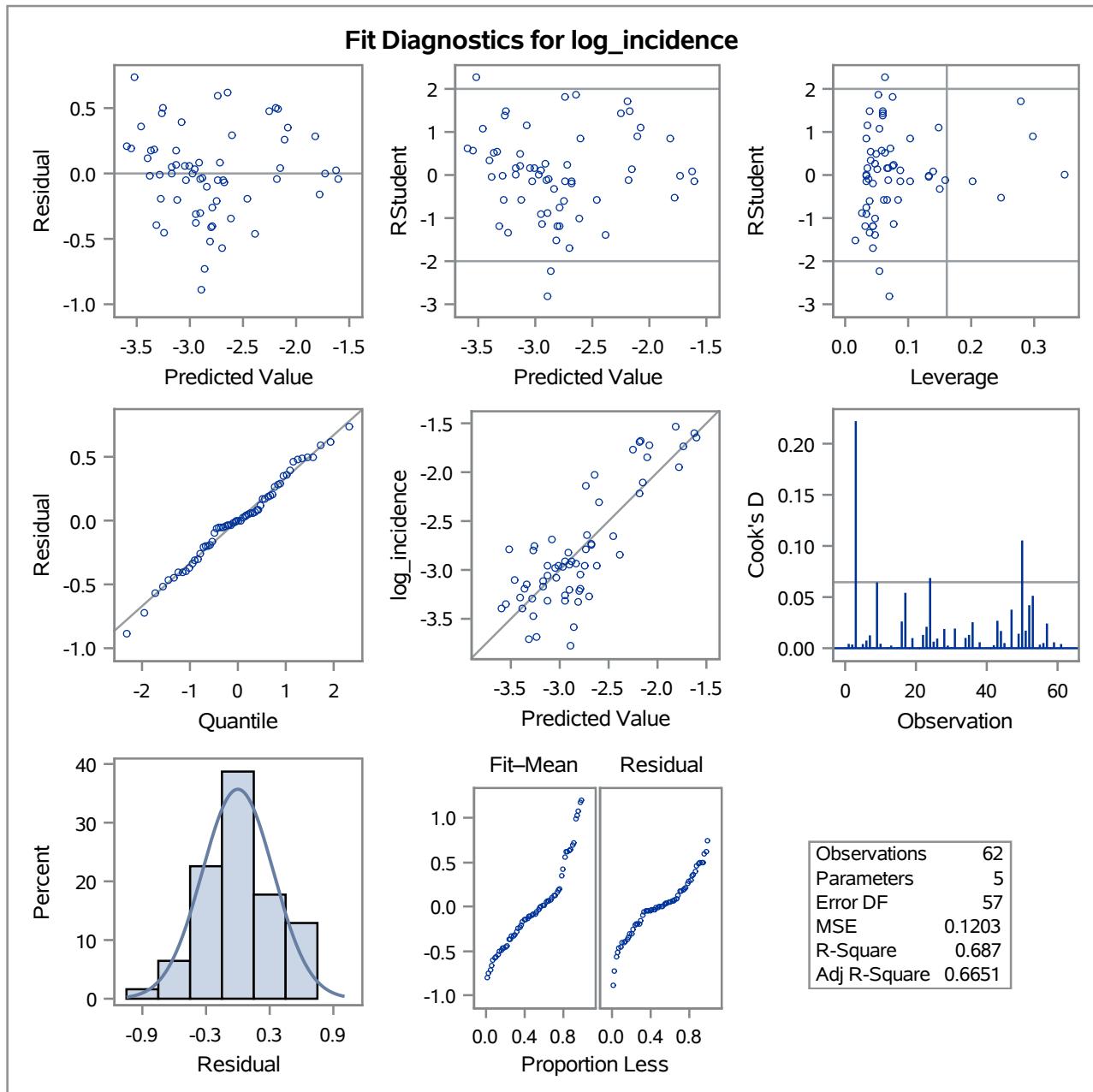
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	15.05458	3.76364	31.28	<.0001
Error	57	6.85788	0.12031		
Corrected Total	61	21.91246			

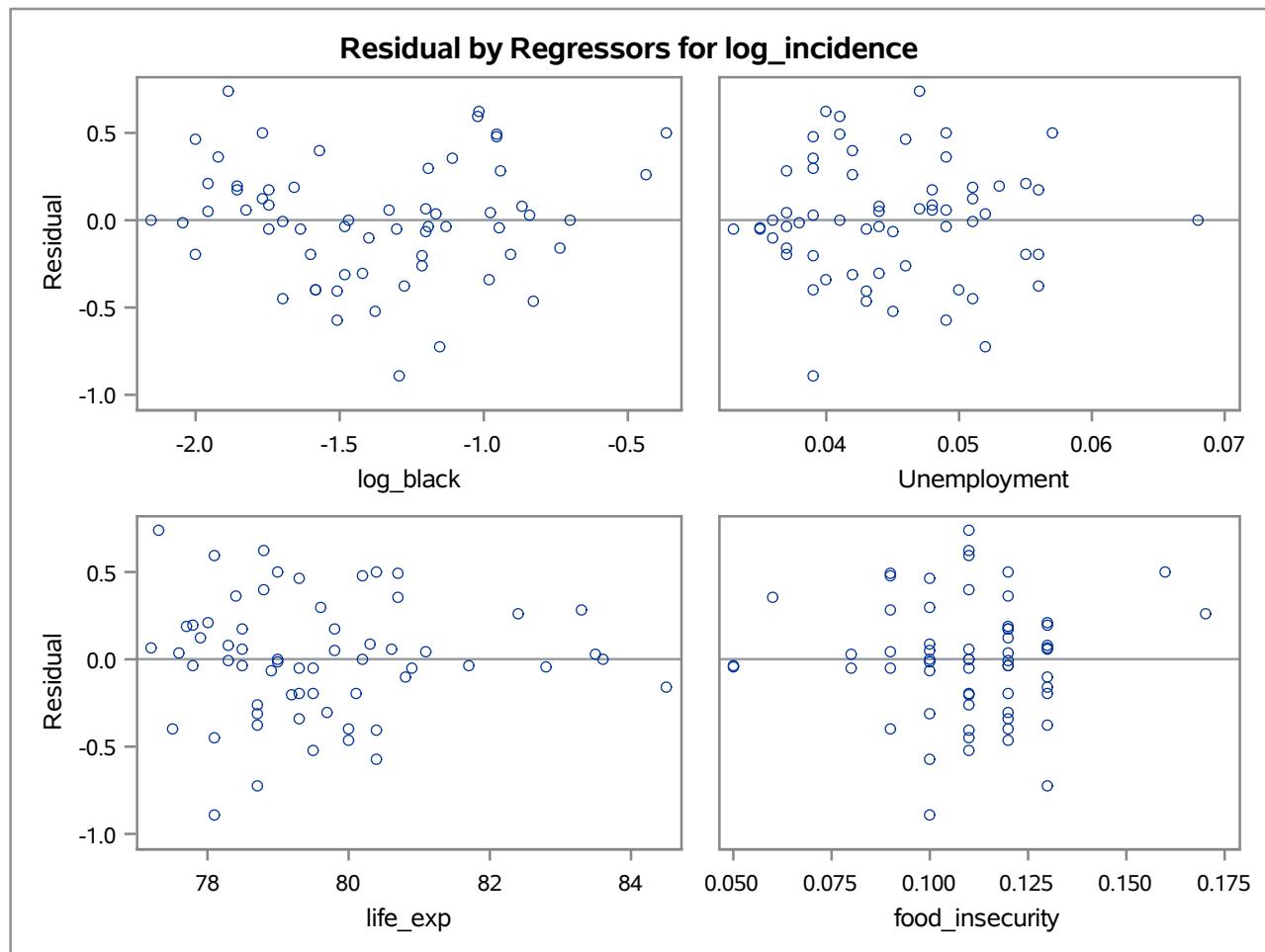
Root MSE	0.34686	R-Square	0.6870
Dependent Mean	-2.80151	Adj R-Sq	0.6651
Coeff Var	-12.38125		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-12.13567	2.93193	-4.14	0.0001
log_black	1	0.81016	0.14040	5.77	<.0001
Unemployment	1	4.40099	8.84394	0.50	0.6207
life_exp	1	0.13912	0.03390	4.10	0.0001
food_insecurity	1	-7.44321	2.76473	-2.69	0.0093

The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The REG Procedure
Model: MODEL1
Dependent Variable: log_incidence



The UNIVARIATE Procedure
Variable: resid (Residual)

Moments			
N	62	Sum Weights	62
Mean	0	Sum Observations	0
Std Deviation	0.33529724	Variance	0.11242424
Skewness	-0.1471862	Kurtosis	0.04163421
Uncorrected SS	6.85787879	Corrected SS	6.85787879
Coeff Variation	.	Std Error Mean	0.04258279

Basic Statistical Measures			
Location		Variability	
Mean	0.00000	Std Deviation	0.33530
Median	-0.00161	Variance	0.11242
Mode	.	Range	1.62488
		Interquartile Range	0.39243

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	0	Pr > t 	1.0000
Sign	M	-2	Pr >= M 	0.7035
Signed Rank	S	12.5	Pr >= S 	0.9310

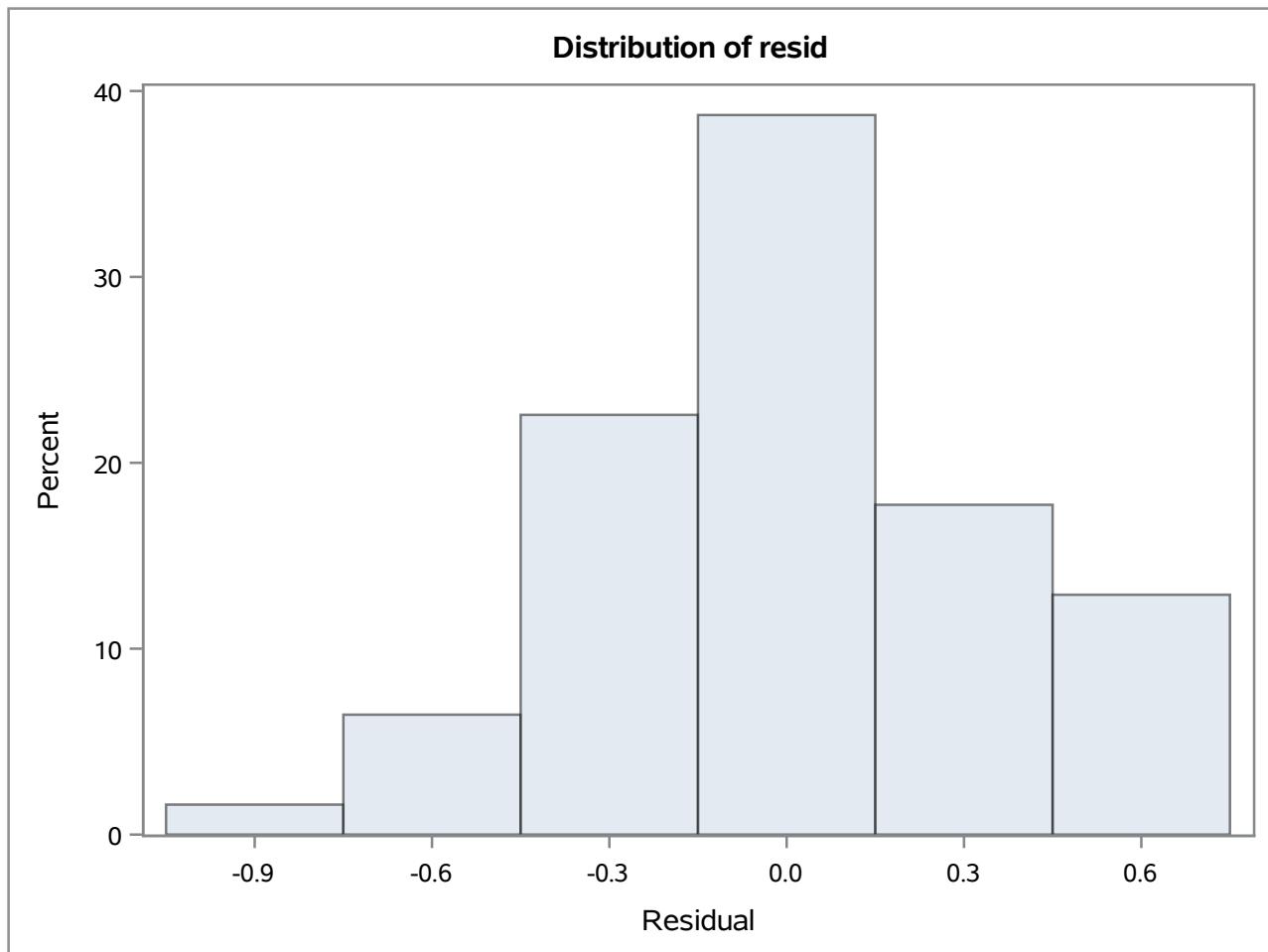
Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.98726	Pr < W	0.7693
Kolmogorov-Smirnov	D	0.101588	Pr > D	0.1104
Cramer-von Mises	W-Sq	0.069285	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.351822	Pr > A-Sq	>0.2500

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.73656582
99%	0.73656582
95%	0.49926377
90%	0.47952289
75% Q3	0.19421080
50% Median	-0.00161019
25% Q1	-0.19822009

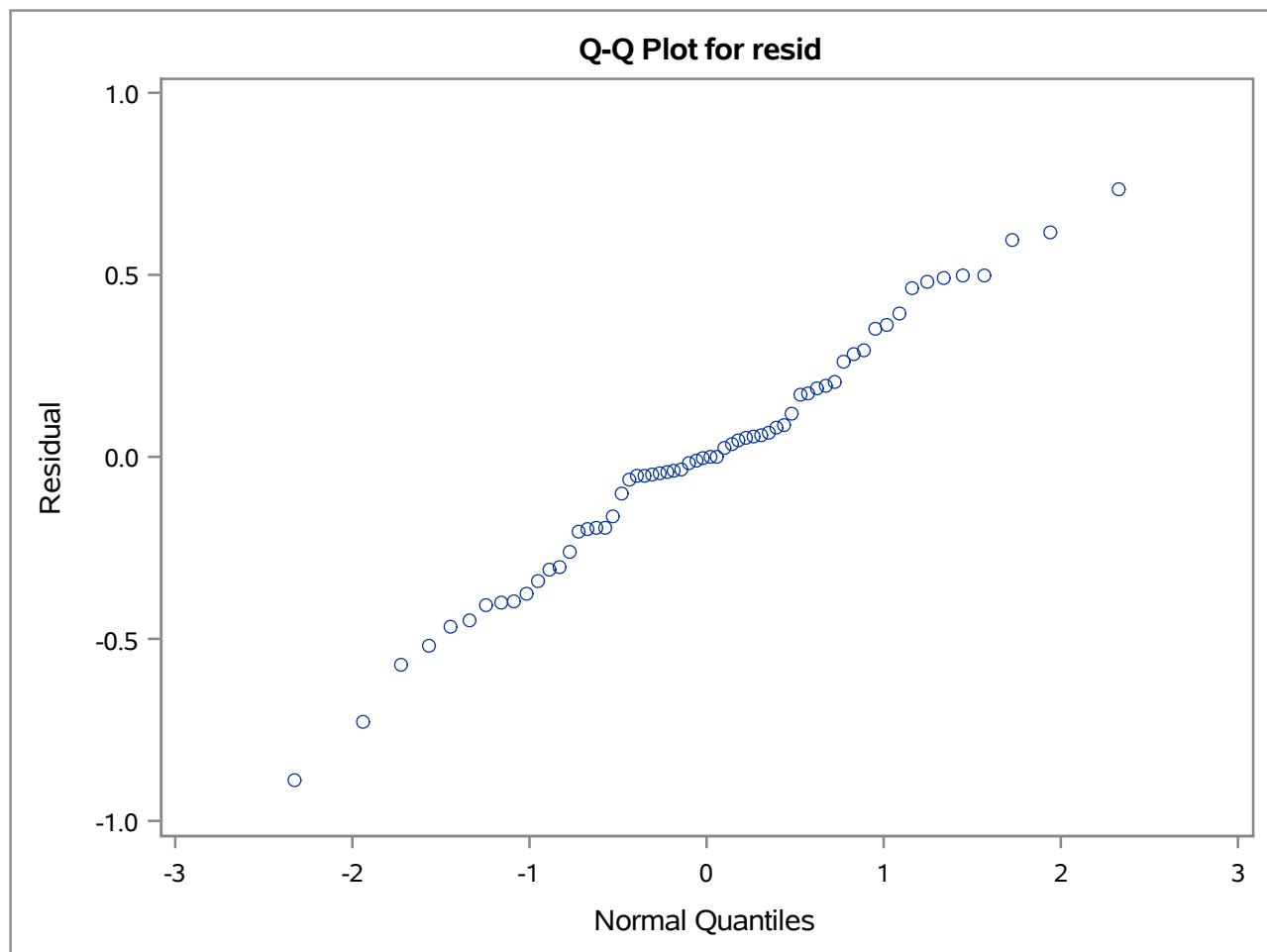
The UNIVARIATE Procedure
Variable: resid (Residual)

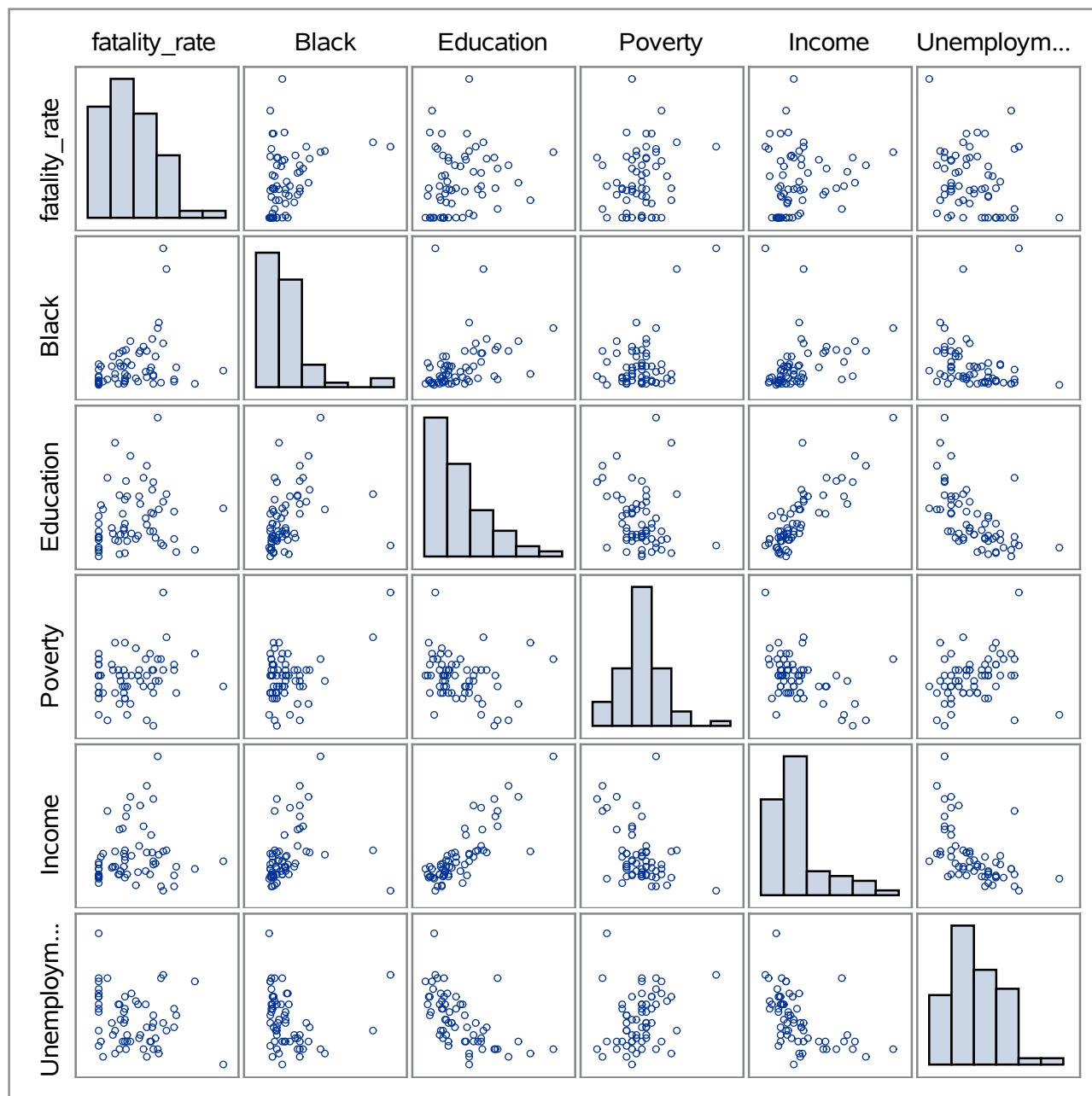
Quantiles (Definition 5)	
Level	Quantile
10%	-0.40778094
5%	-0.51939766
1%	-0.88830947
0% Min	-0.88830947

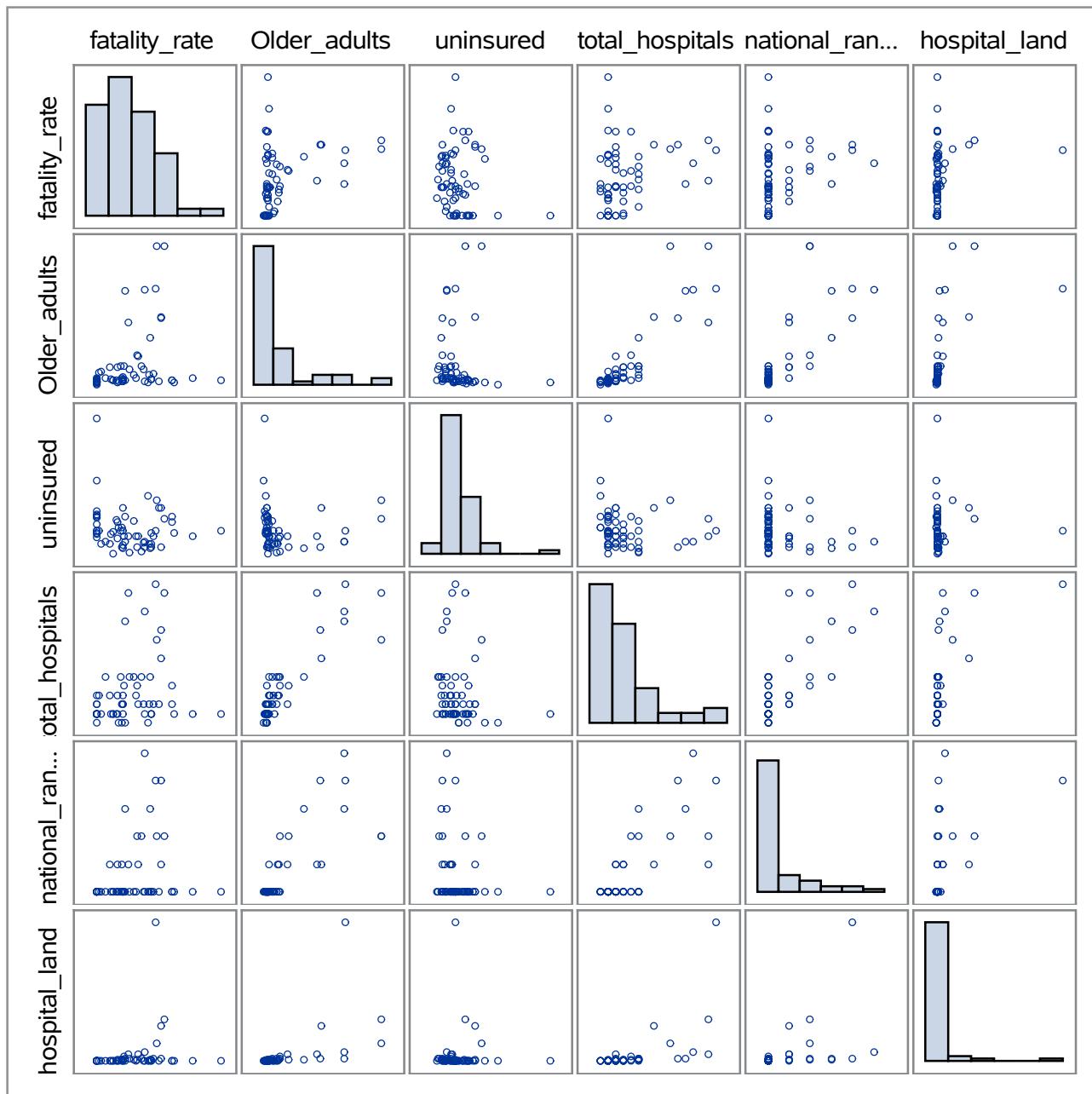
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.888309	50	0.497600	51
-0.726323	17	0.499264	3
-0.569466	16	0.594468	53
-0.519398	6	0.617240	47
-0.465722	28	0.736566	9

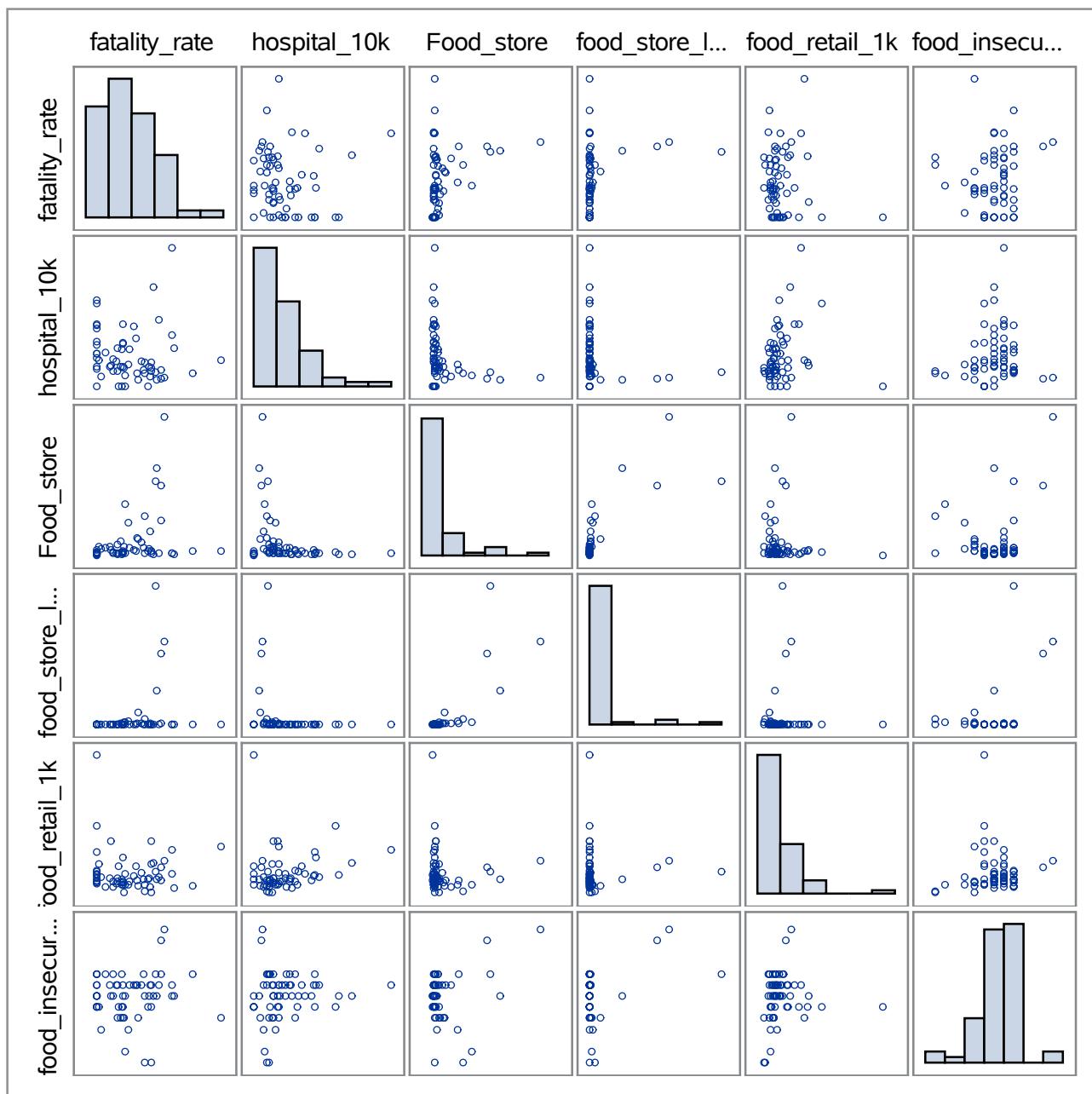
The UNIVARIATE Procedure

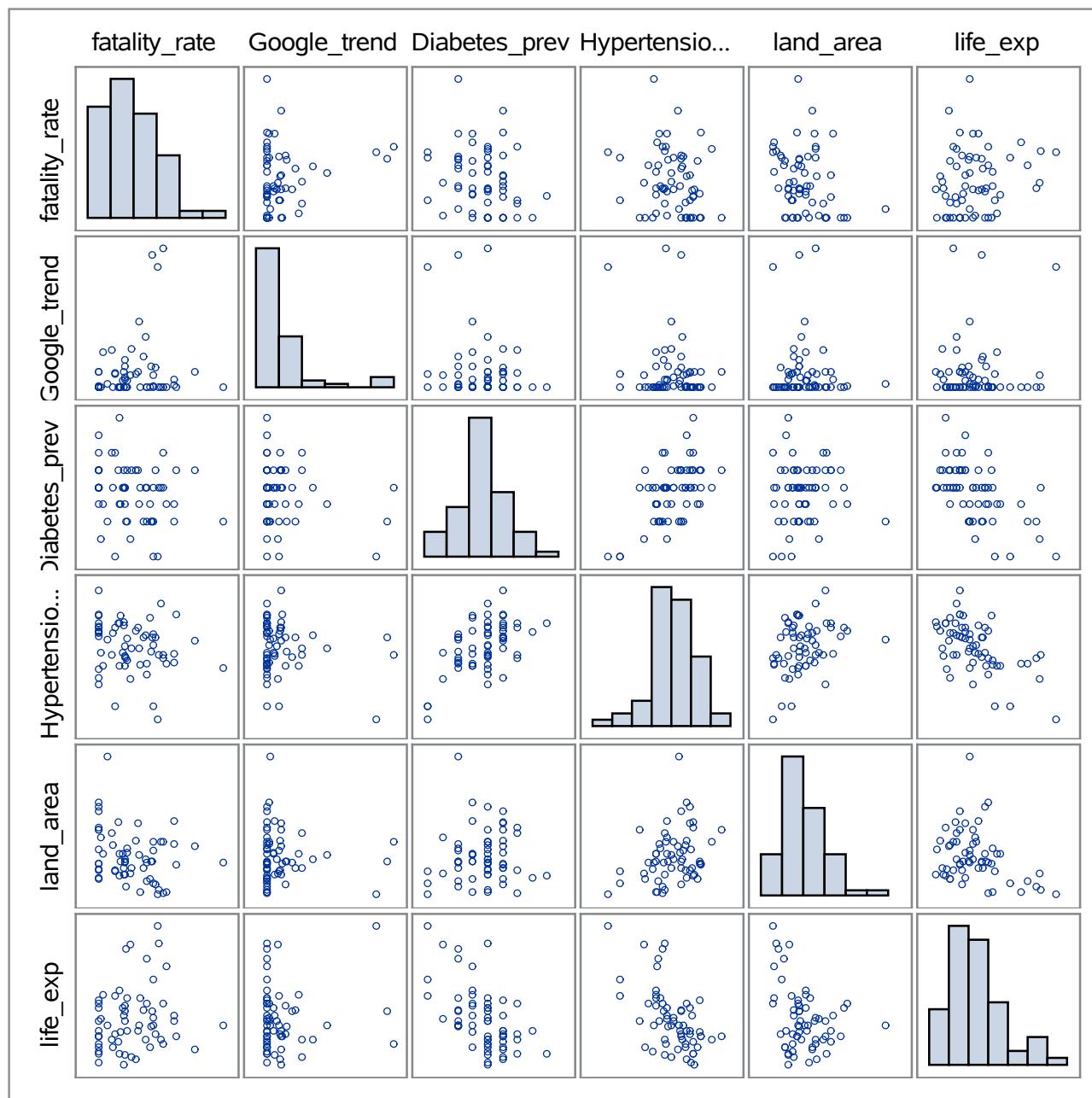
The UNIVARIATE Procedure

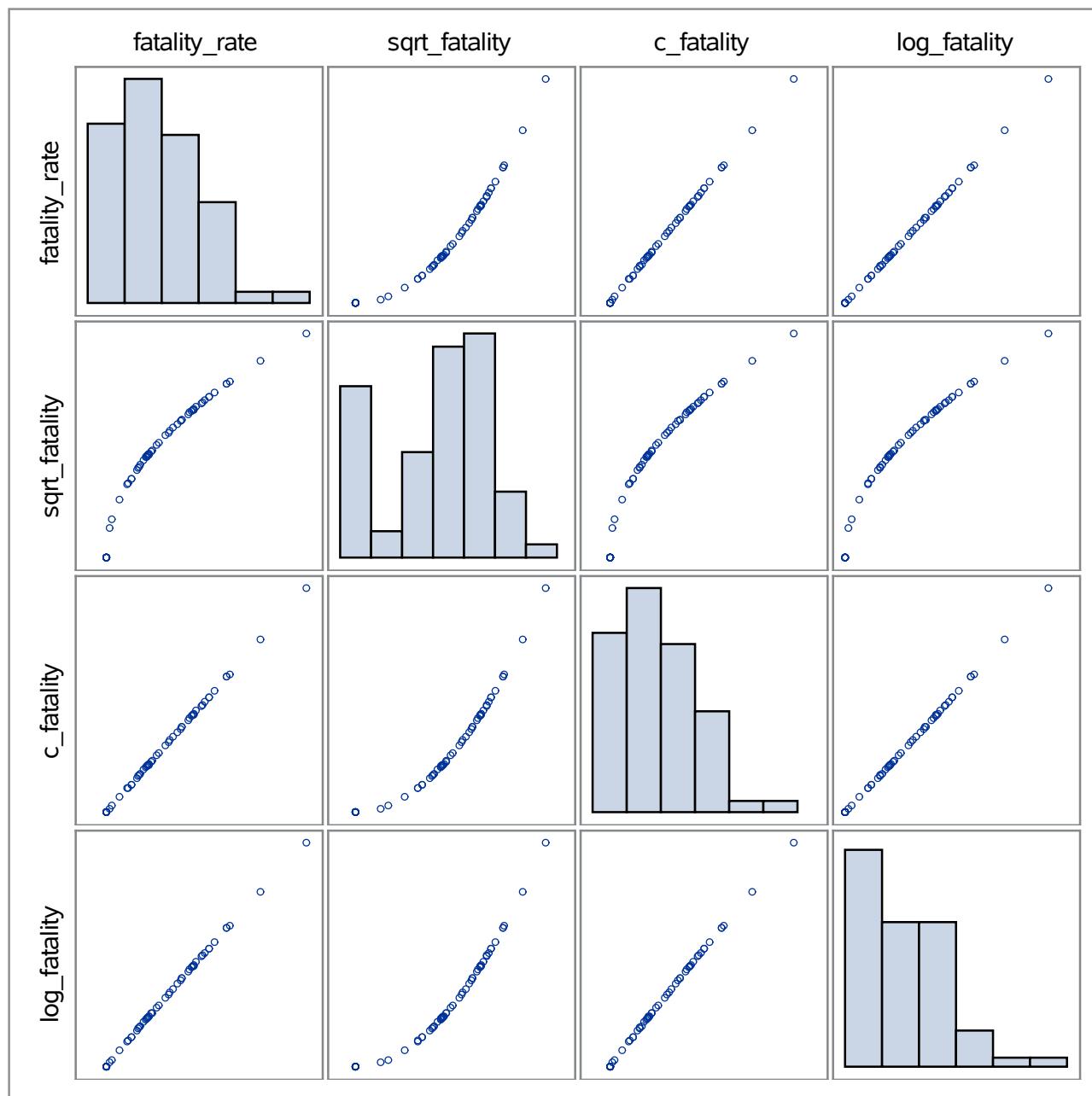












The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

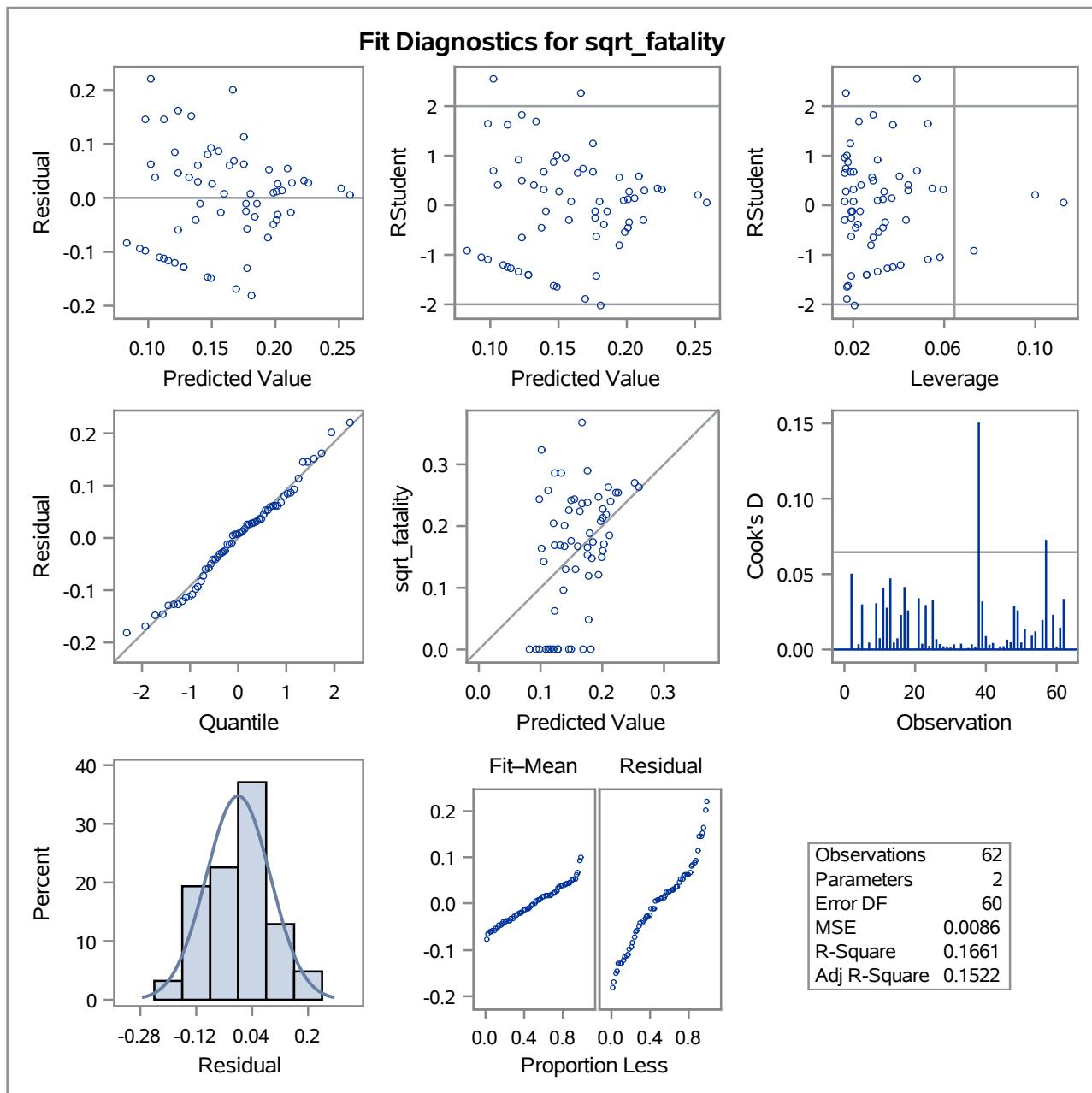
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.10248	0.10248	11.95	0.0010
Error	60	0.51436	0.00857		
Corrected Total	61	0.61684			

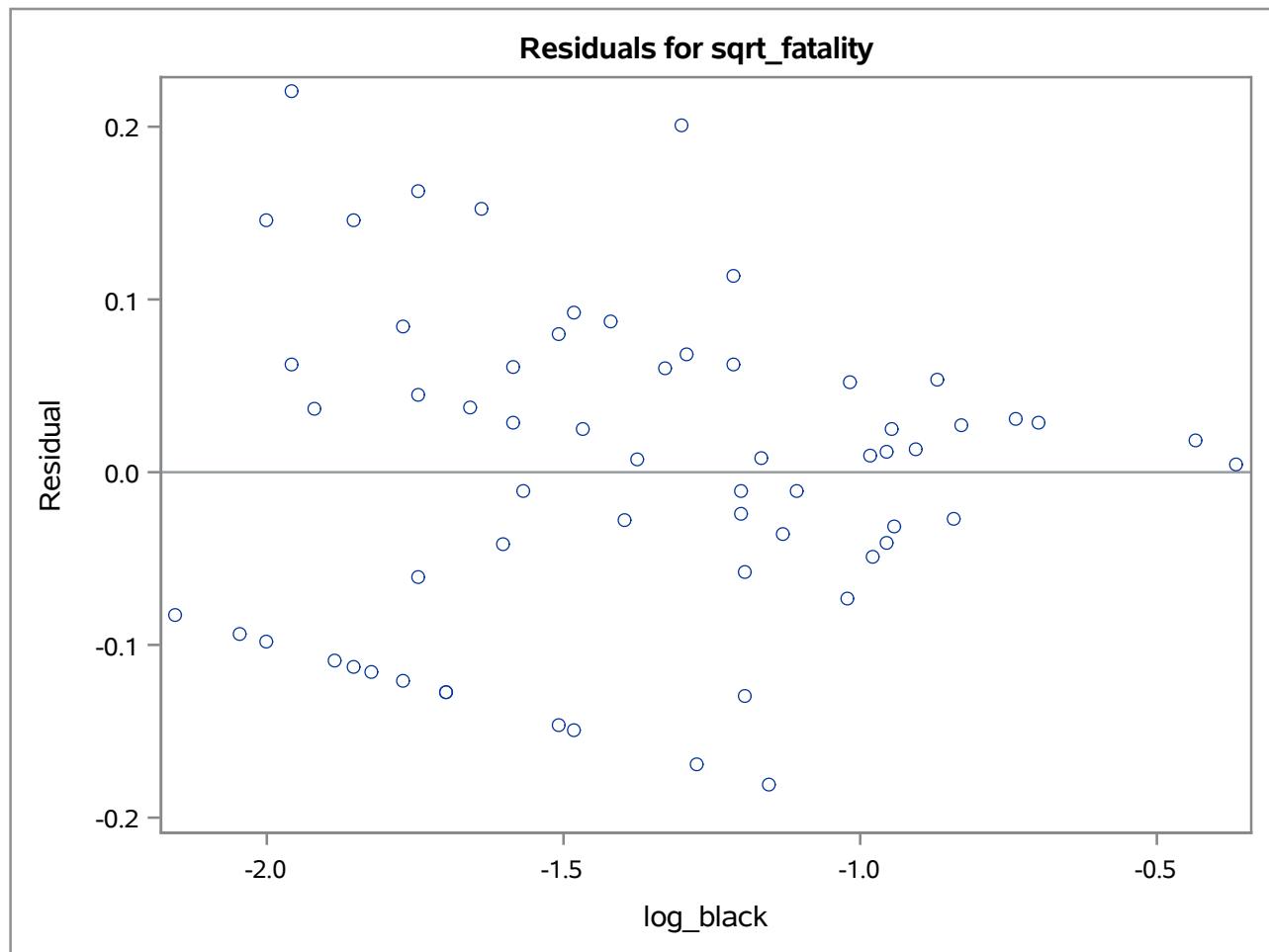
Root MSE	0.09259	R-Square	0.1661
Dependent Mean	0.15931	Adj R-Sq	0.1522
Coeff Var	58.11848		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.29472	0.04089	7.21	<.0001
log_black	1	0.09834	0.02844	3.46	0.0010

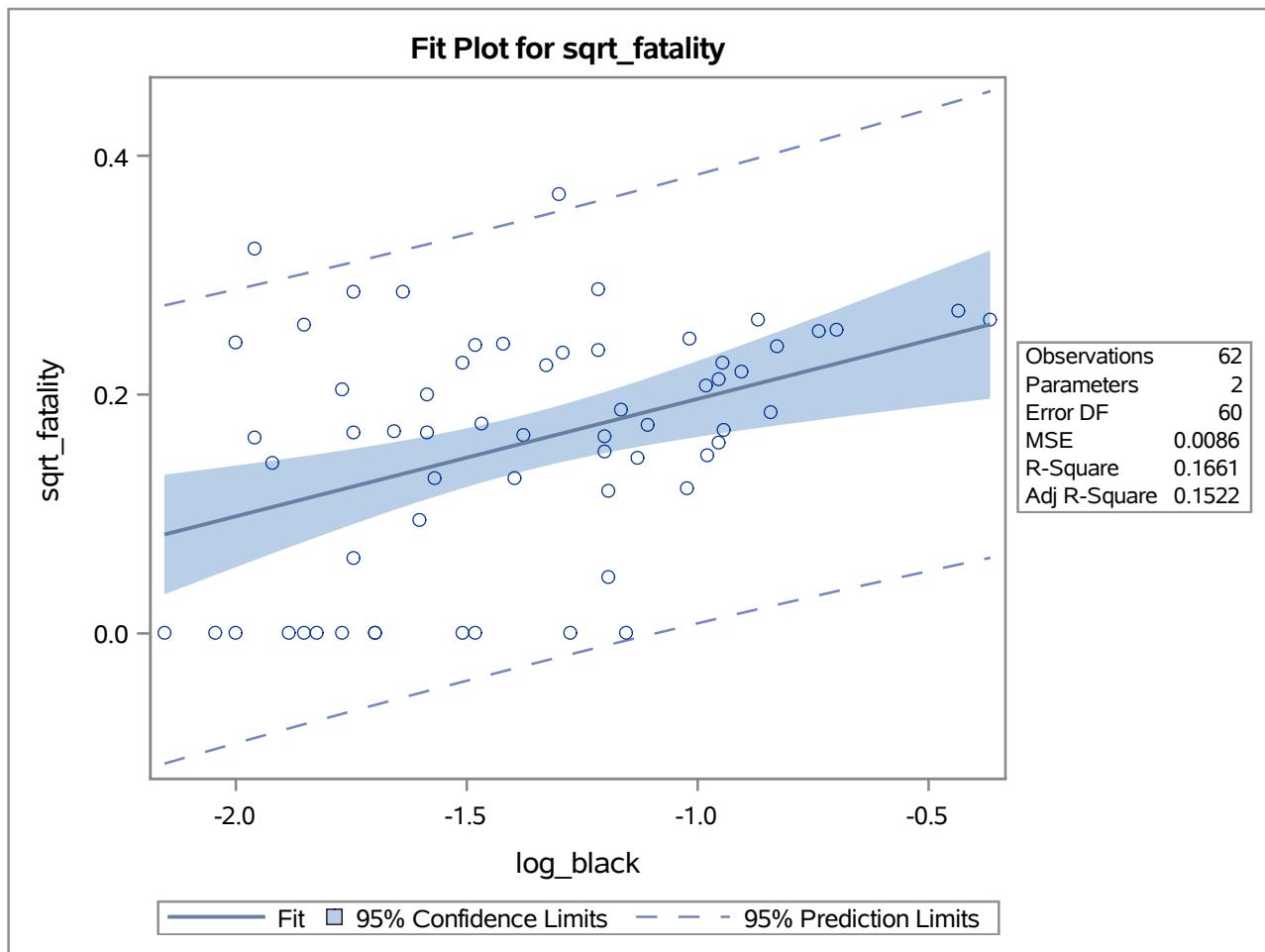
The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality

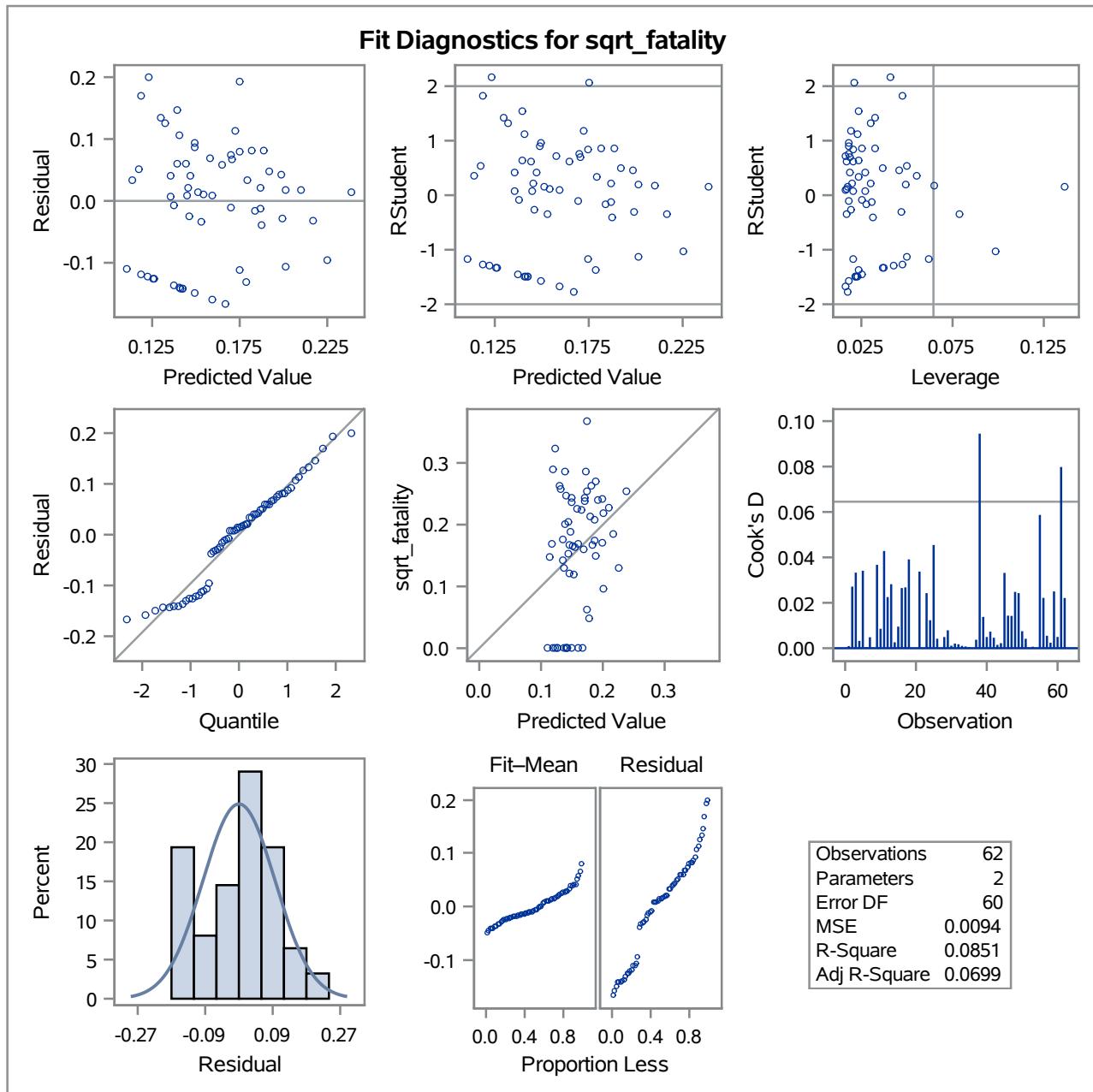
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.05251	0.05251	5.58	0.0214
Error	60	0.56433	0.00941		
Corrected Total	61	0.61684			

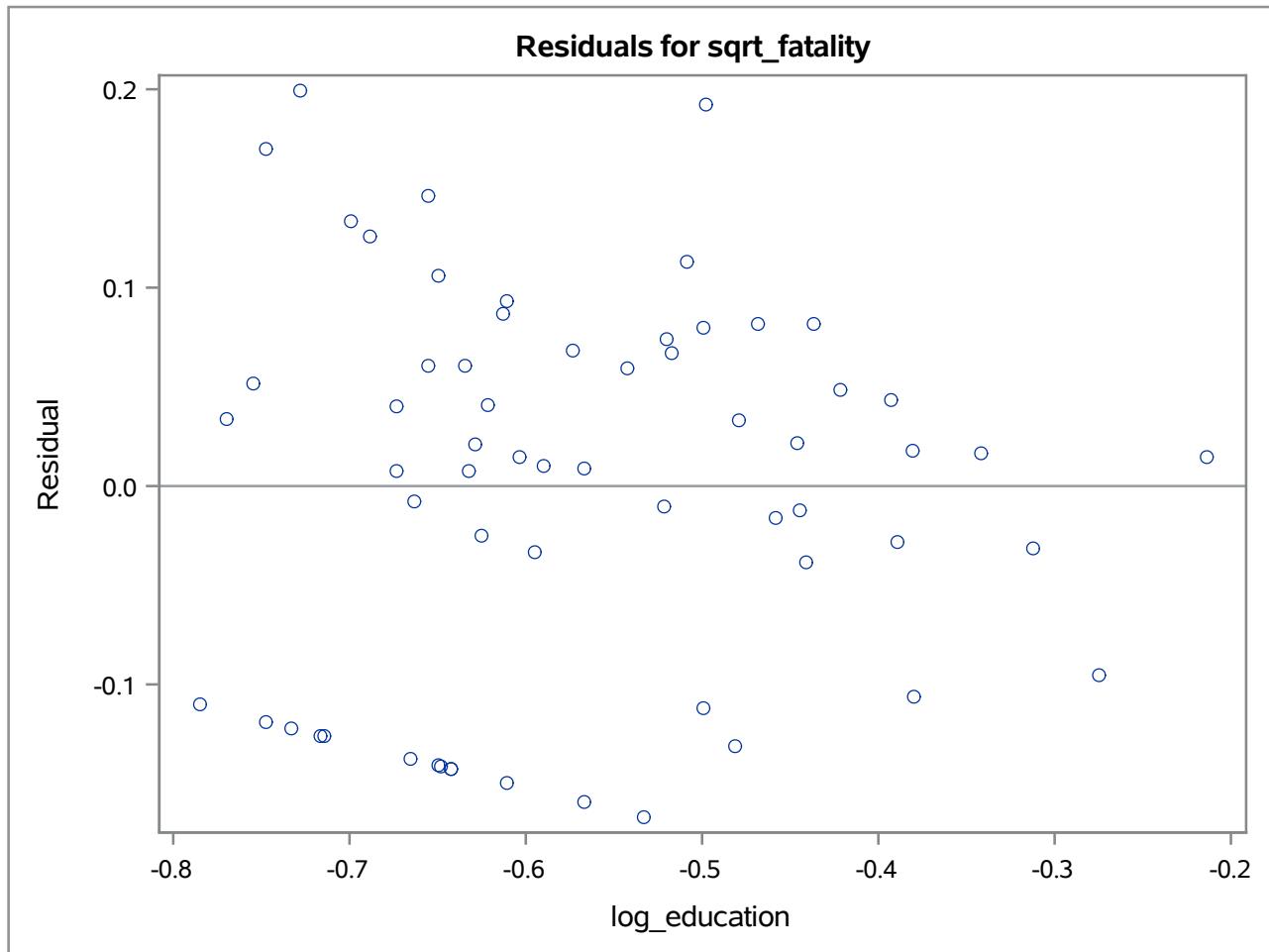
Root MSE	0.09698	R-Square	0.0851
Dependent Mean	0.15931	Adj R-Sq	0.0699
Coeff Var	60.87600		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.28691	0.05539	5.18	<.0001
log_education	1	0.22490	0.09518	2.36	0.0214

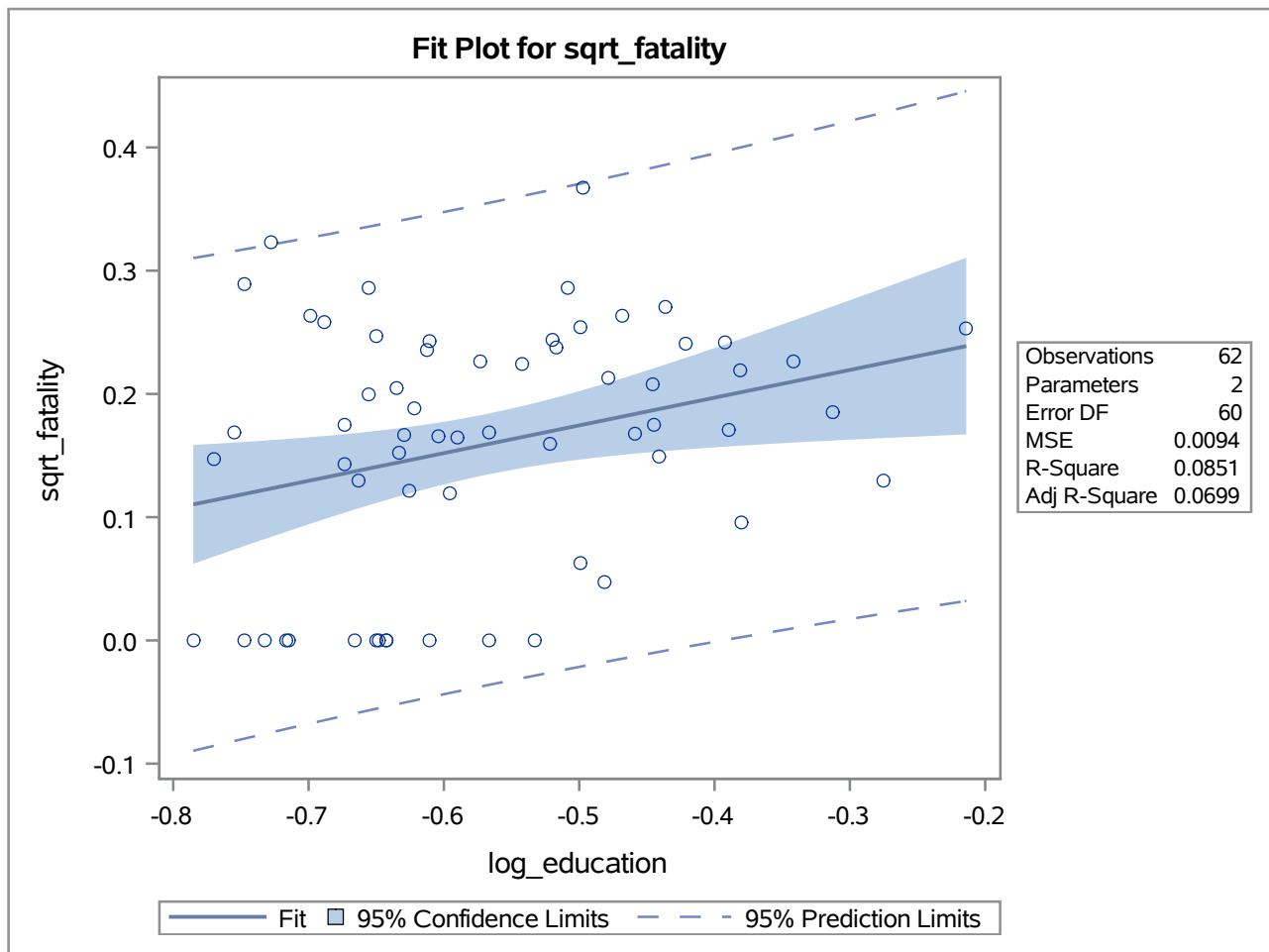
The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality

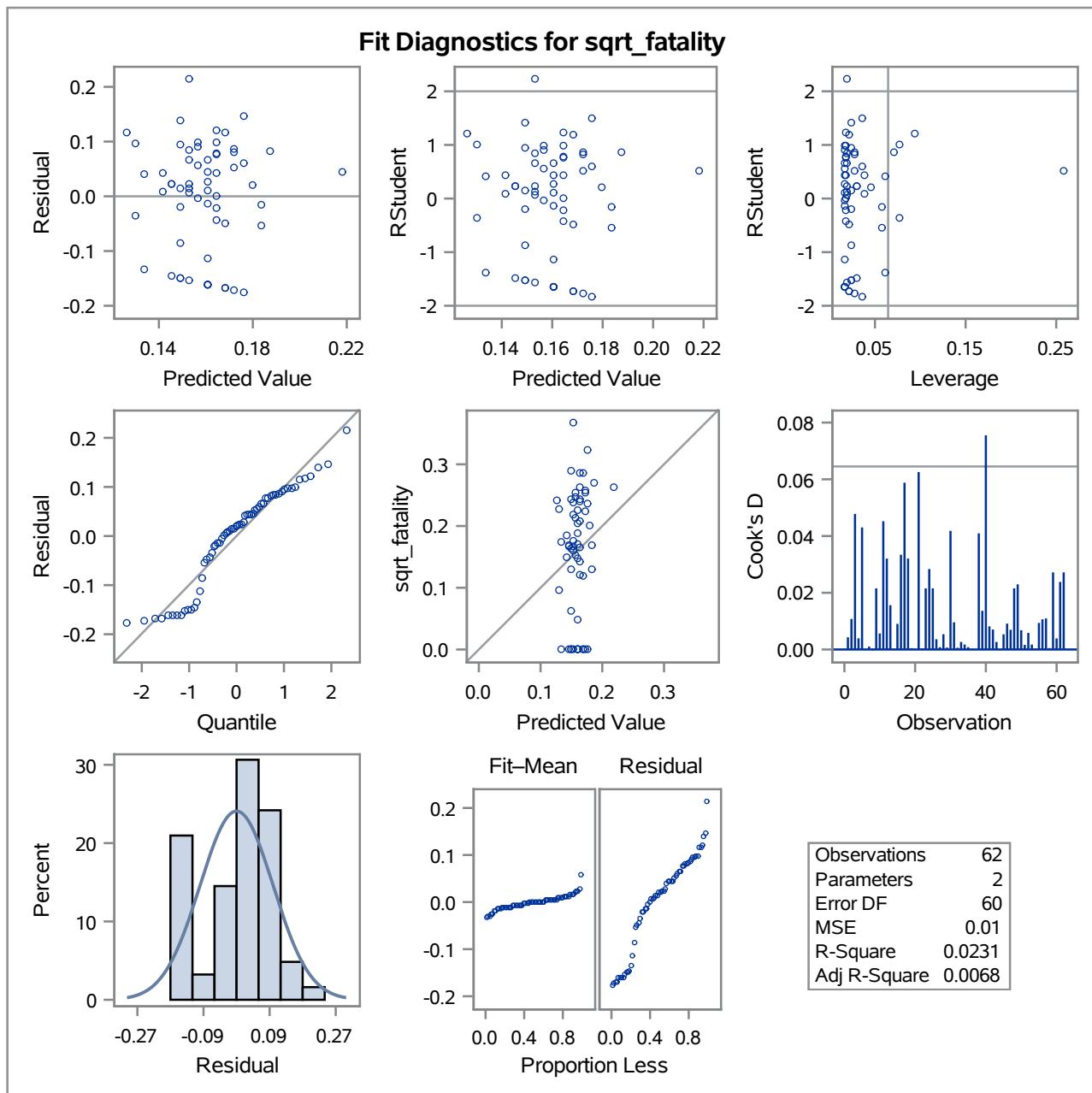
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.01425	0.01425	1.42	0.2382
Error	60	0.60259	0.01004		
Corrected Total	61	0.61684			

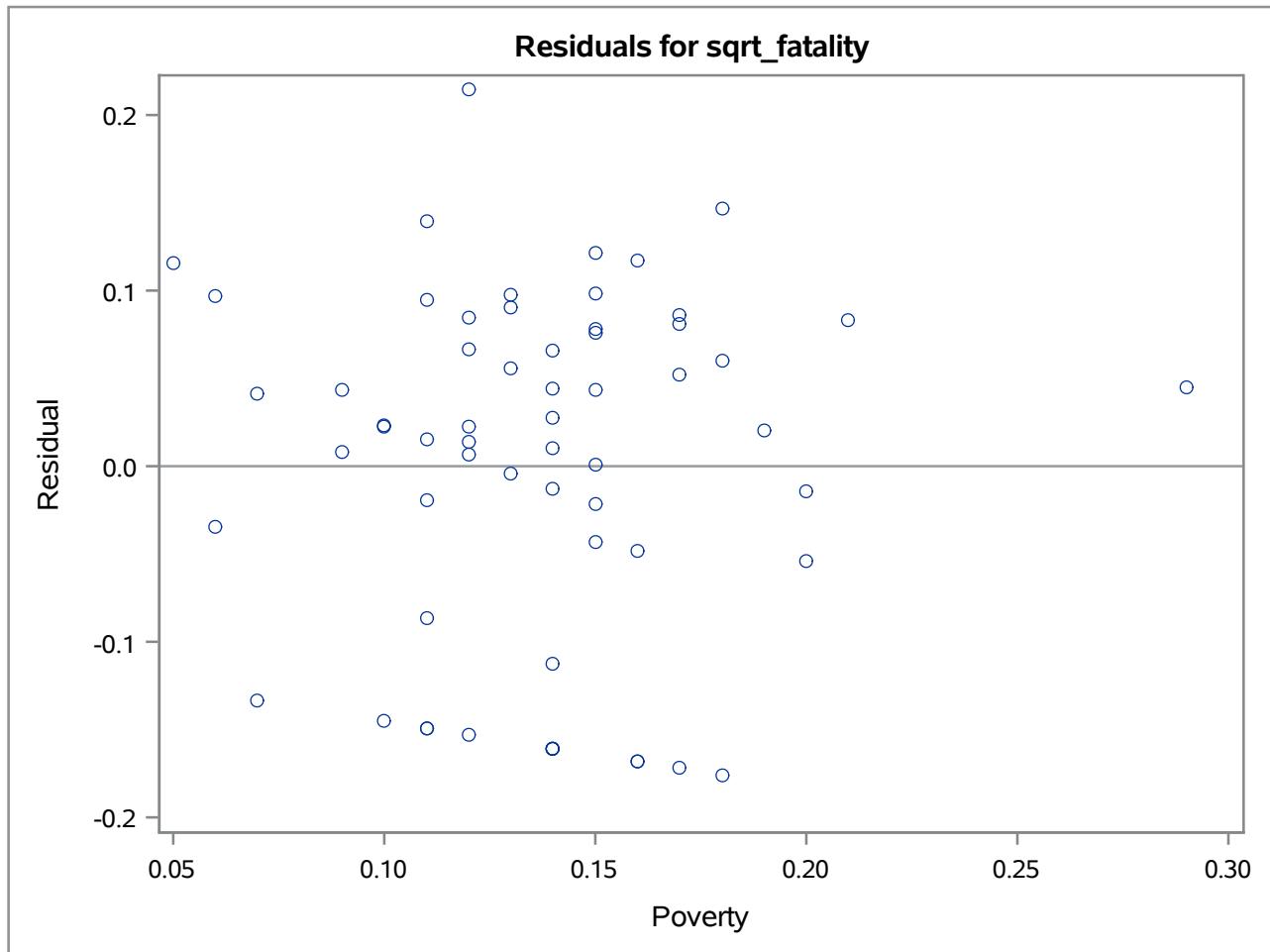
Root MSE	0.10022	R-Square	0.0231
Dependent Mean	0.15931	Adj R-Sq	0.0068
Coeff Var	62.90579		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.10699	0.04572	2.34	0.0226
Poverty	1	0.38297	0.32146	1.19	0.2382

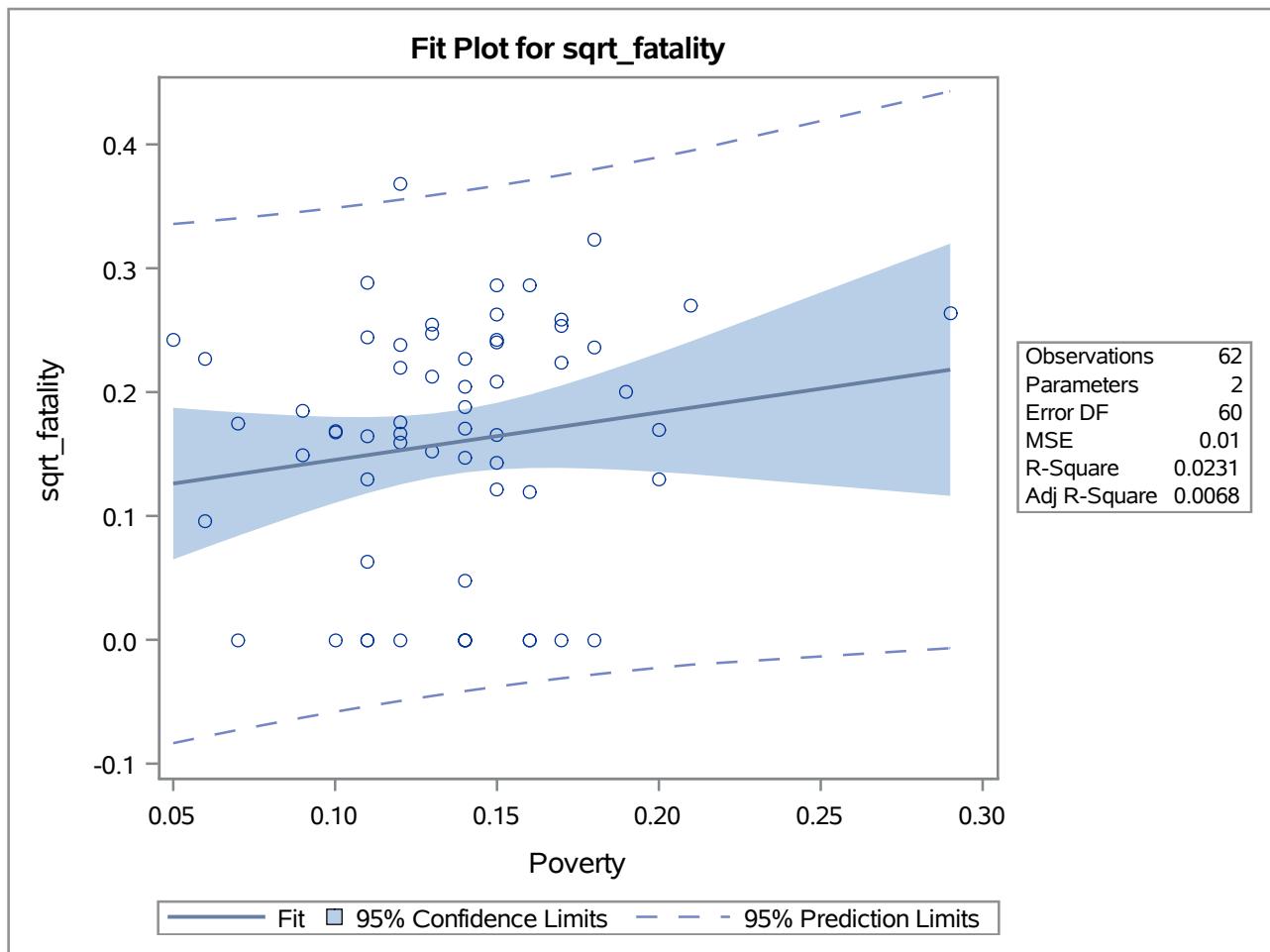
The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality

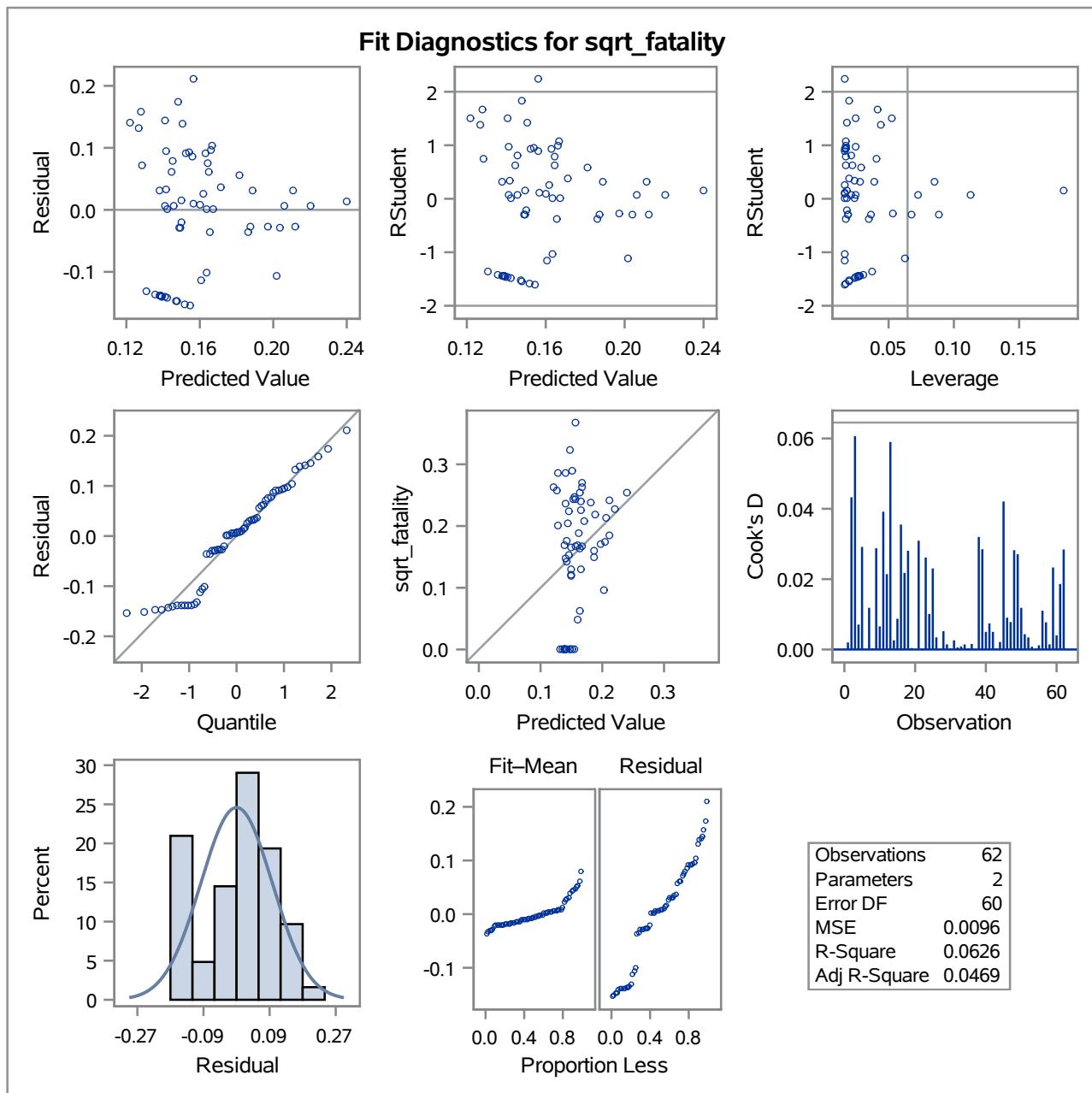
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.03859	0.03859	4.00	0.0499
Error	60	0.57826	0.00964		
Corrected Total	61	0.61684			

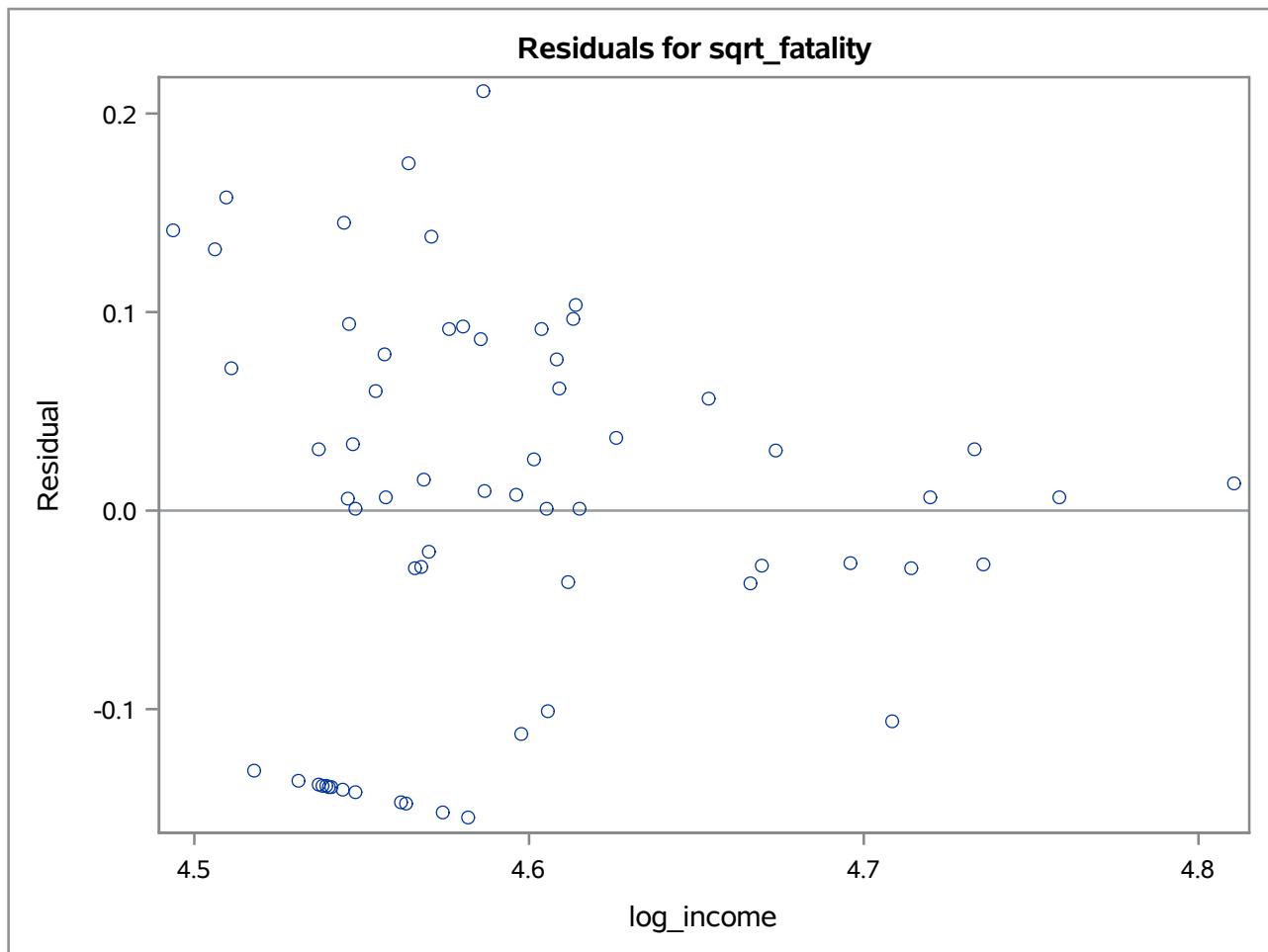
Root MSE	0.09817	R-Square	0.0626
Dependent Mean	0.15931	Adj R-Sq	0.0469
Coeff Var	61.62270		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-1.55025	0.85448	-1.81	0.0746
log_income	1	0.37211	0.18597	2.00	0.0499

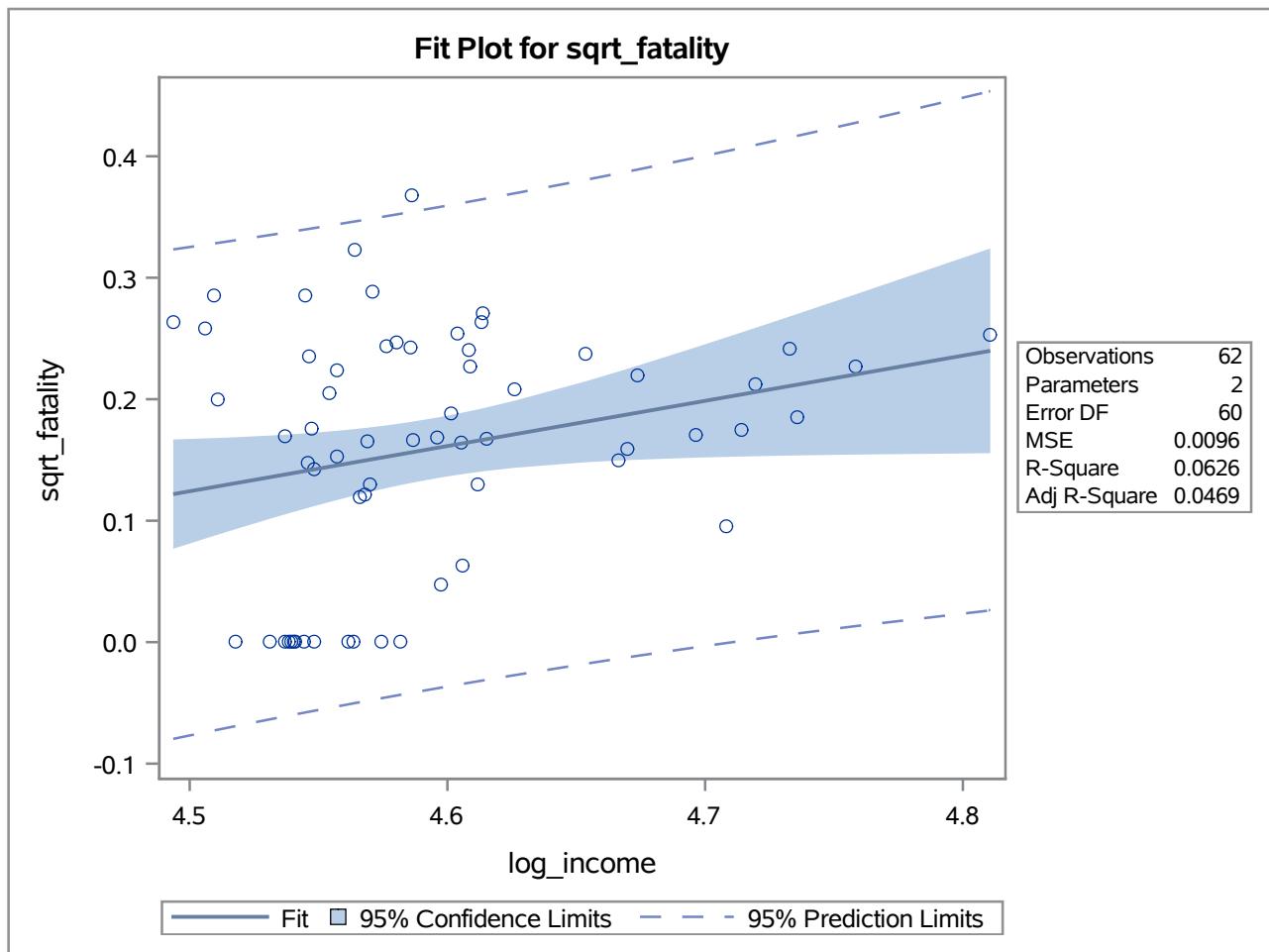
The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality

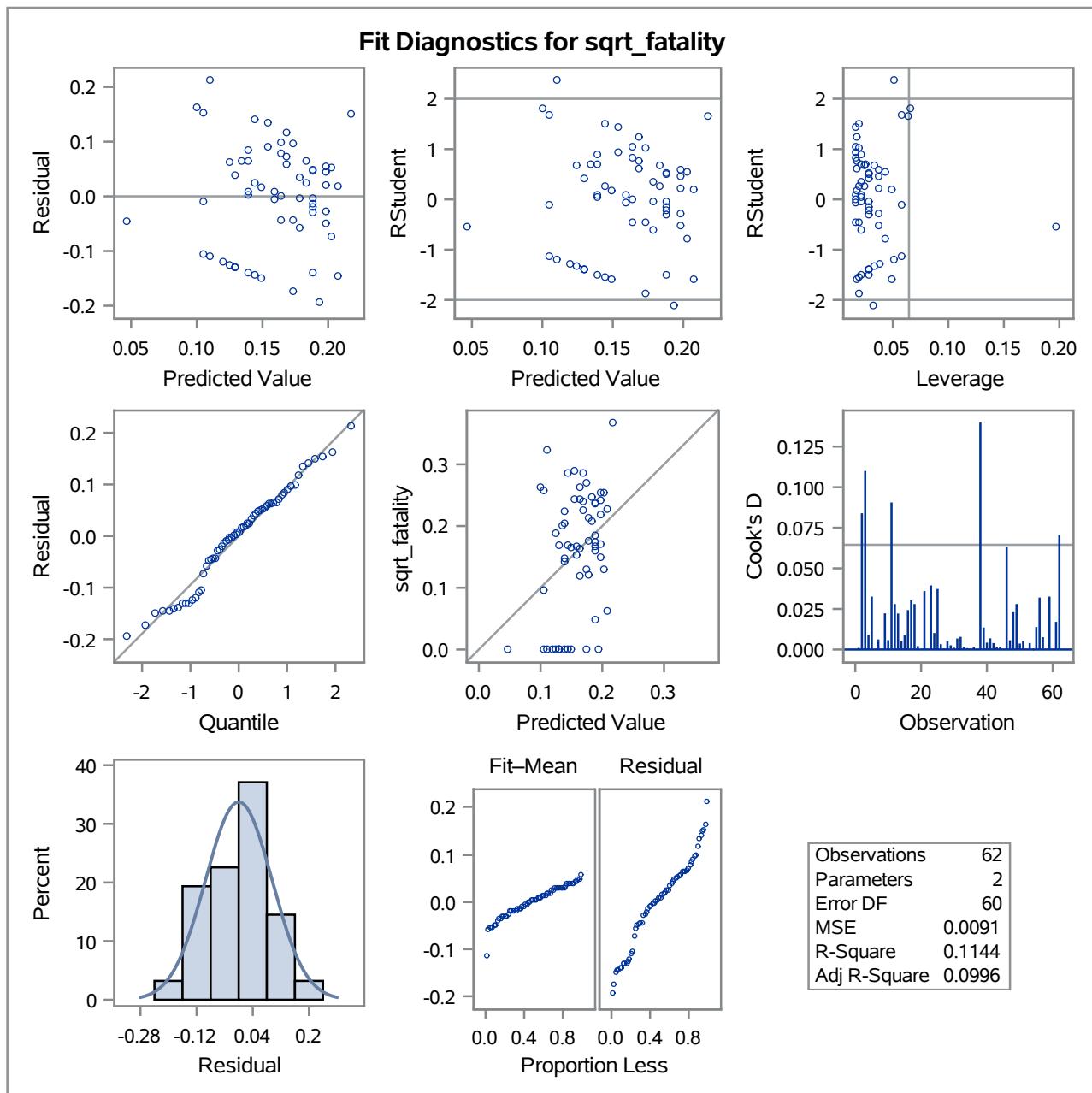
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.07057	0.07057	7.75	0.0072
Error	60	0.54627	0.00910		
Corrected Total	61	0.61684			

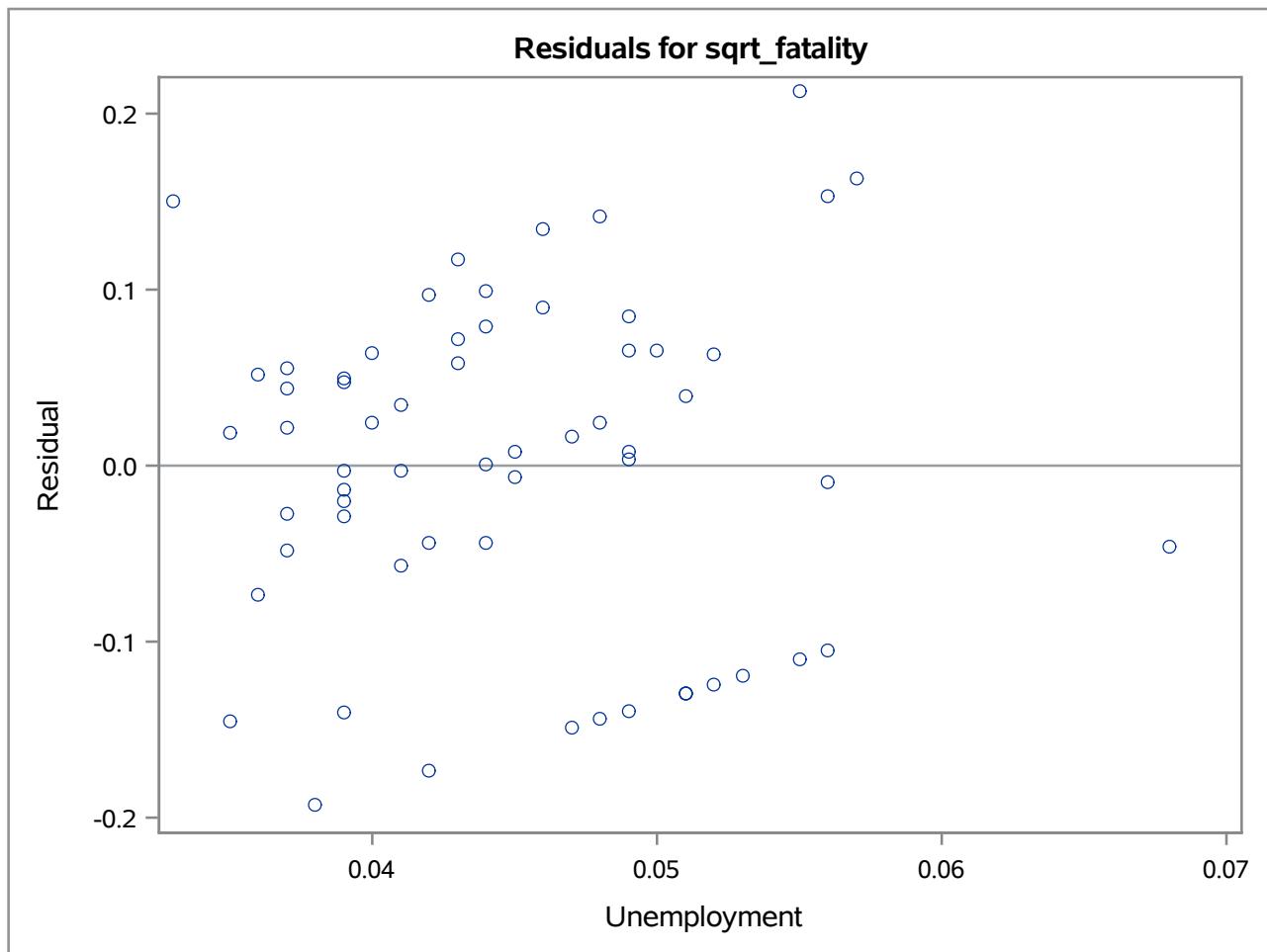
Root MSE	0.09542	R-Square	0.1144
Dependent Mean	0.15931	Adj R-Sq	0.0996
Coeff Var	59.89424		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.37888	0.07979	4.75	<.0001
Unemployment	1	-4.88983	1.75636	-2.78	0.0072

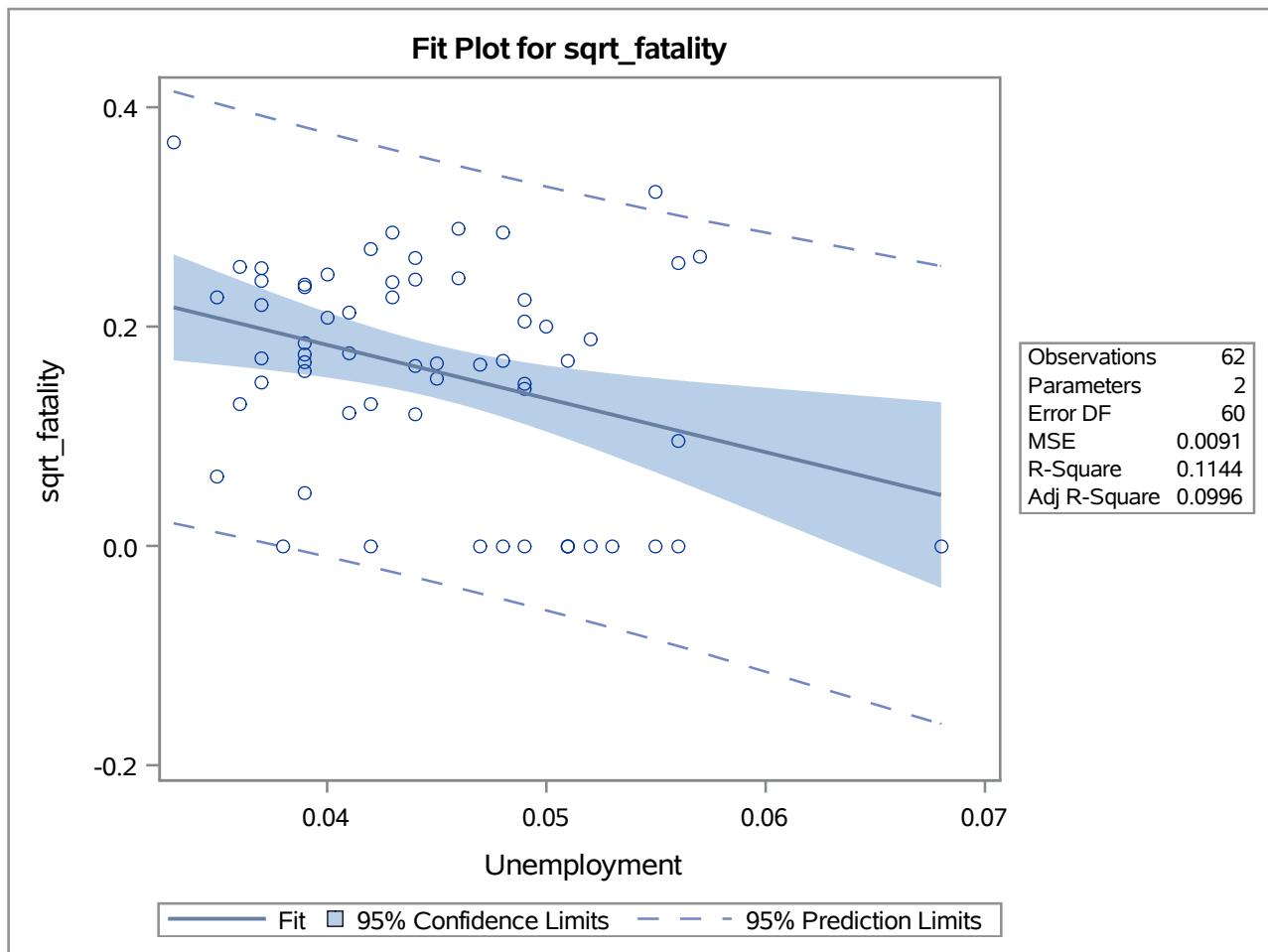
The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality

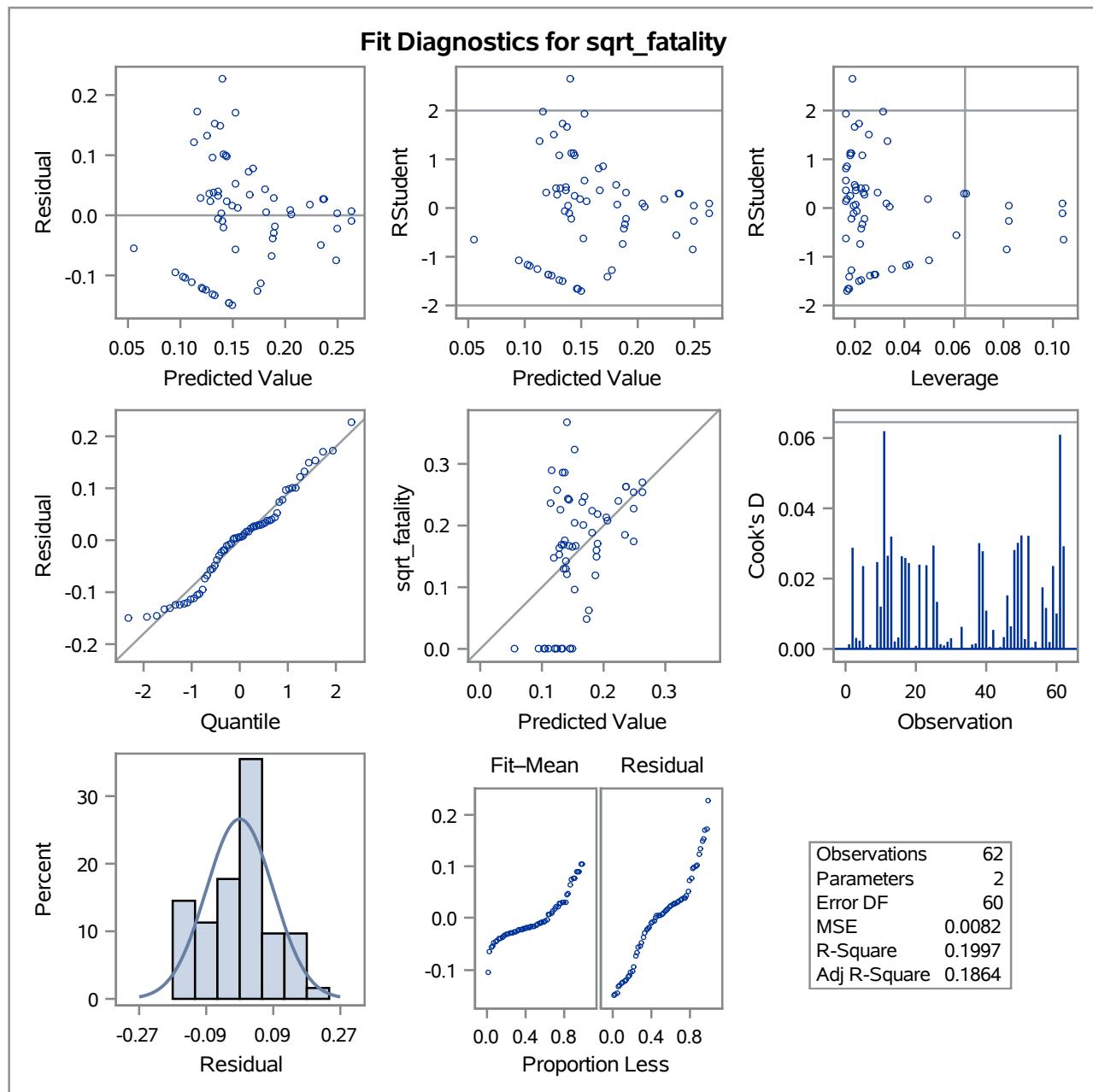
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.12319	0.12319	14.97	0.0003
Error	60	0.49365	0.00823		
Corrected Total	61	0.61684			

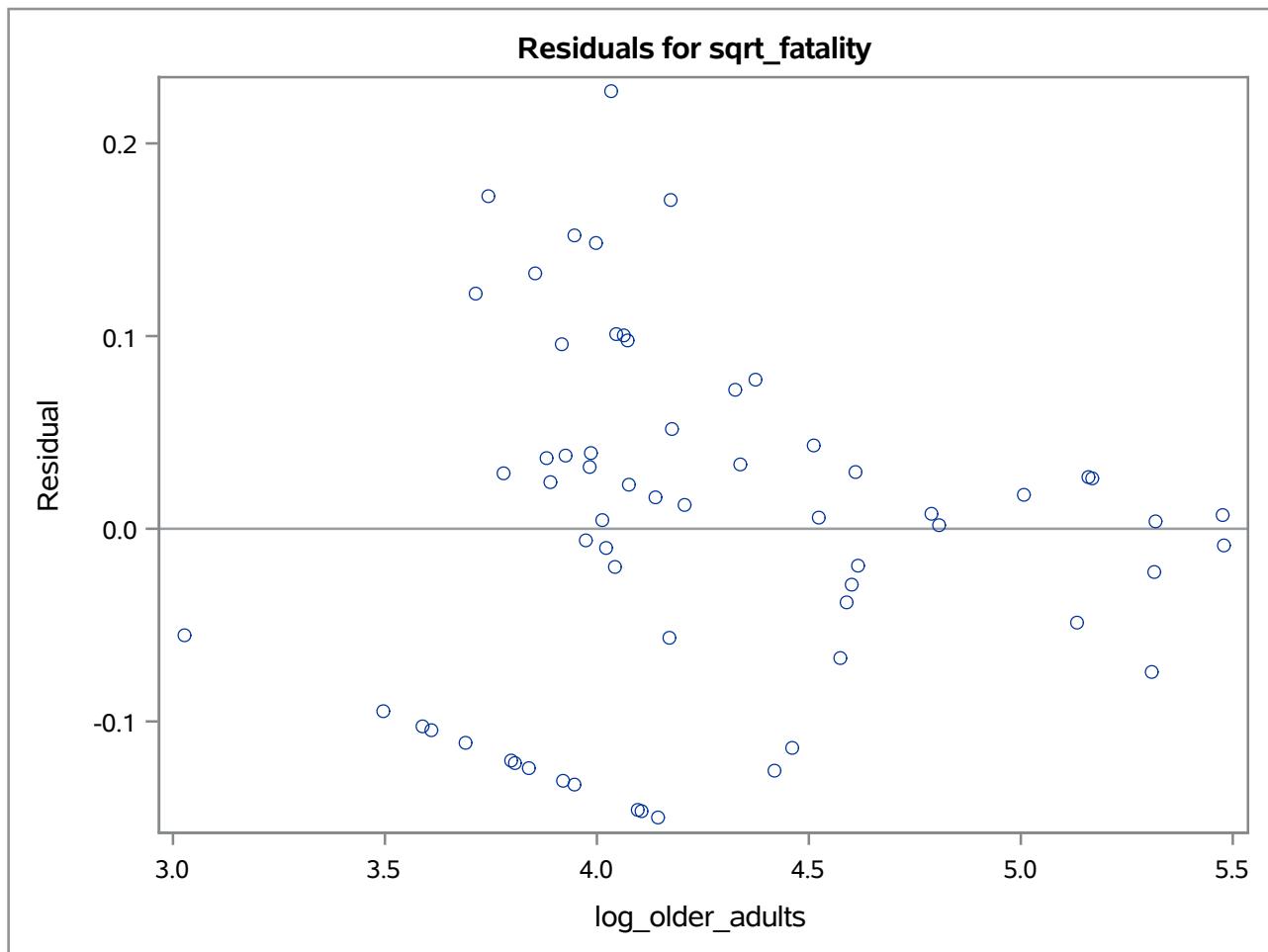
Root MSE	0.09071	R-Square	0.1997
Dependent Mean	0.15931	Adj R-Sq	0.1864
Coeff Var	56.93641		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.20206	0.09410	-2.15	0.0358
log_older_adults	1	0.08493	0.02195	3.87	0.0003

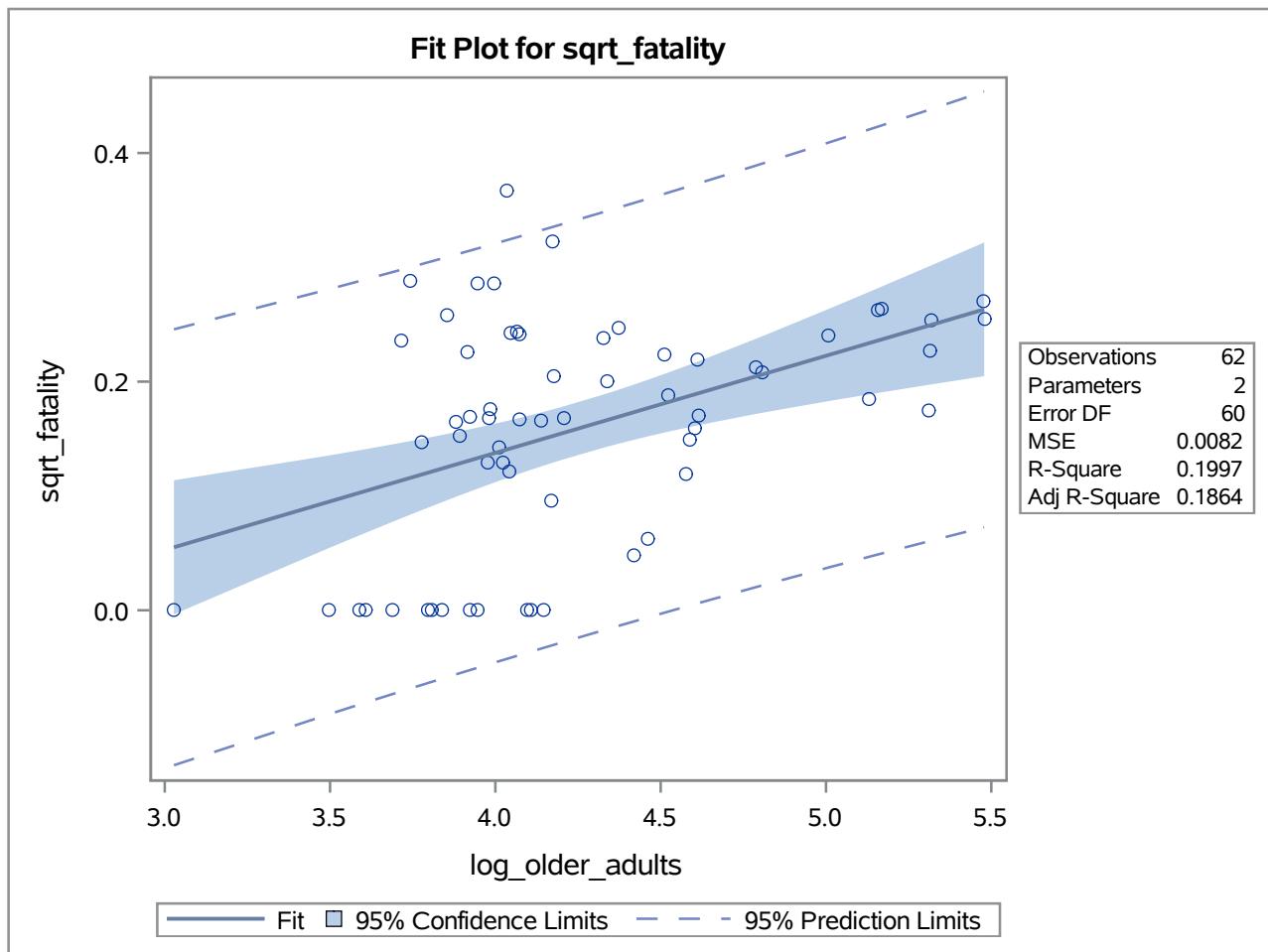
The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality

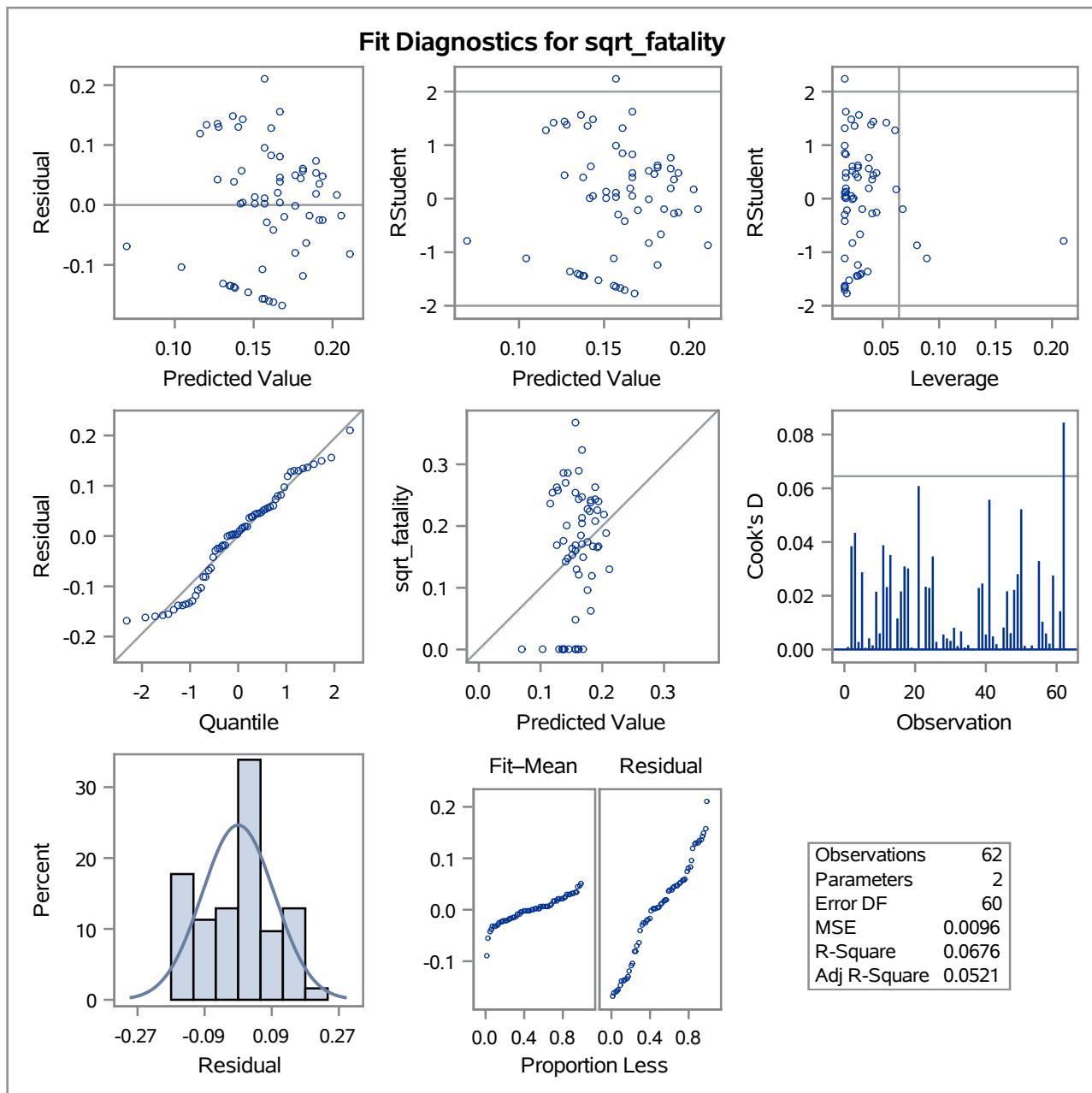
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.04173	0.04173	4.35	0.0412
Error	60	0.57511	0.00959		
Corrected Total	61	0.61684			

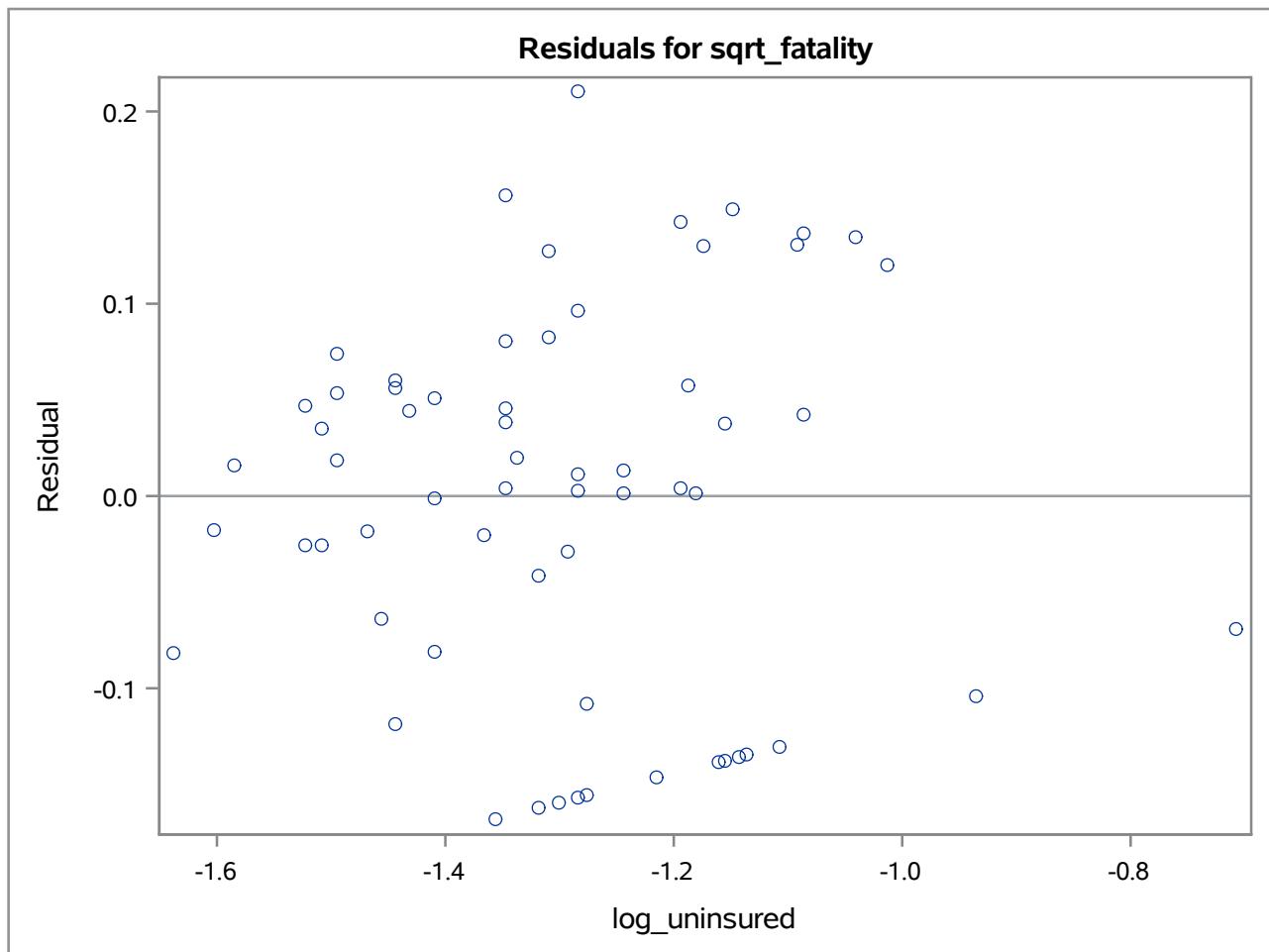
Root MSE	0.09790	R-Square	0.0676
Dependent Mean	0.15931	Adj R-Sq	0.0521
Coeff Var	61.45503		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.03852	0.09563	-0.40	0.6885
log_uninsured	1	-0.15236	0.07302	-2.09	0.0412

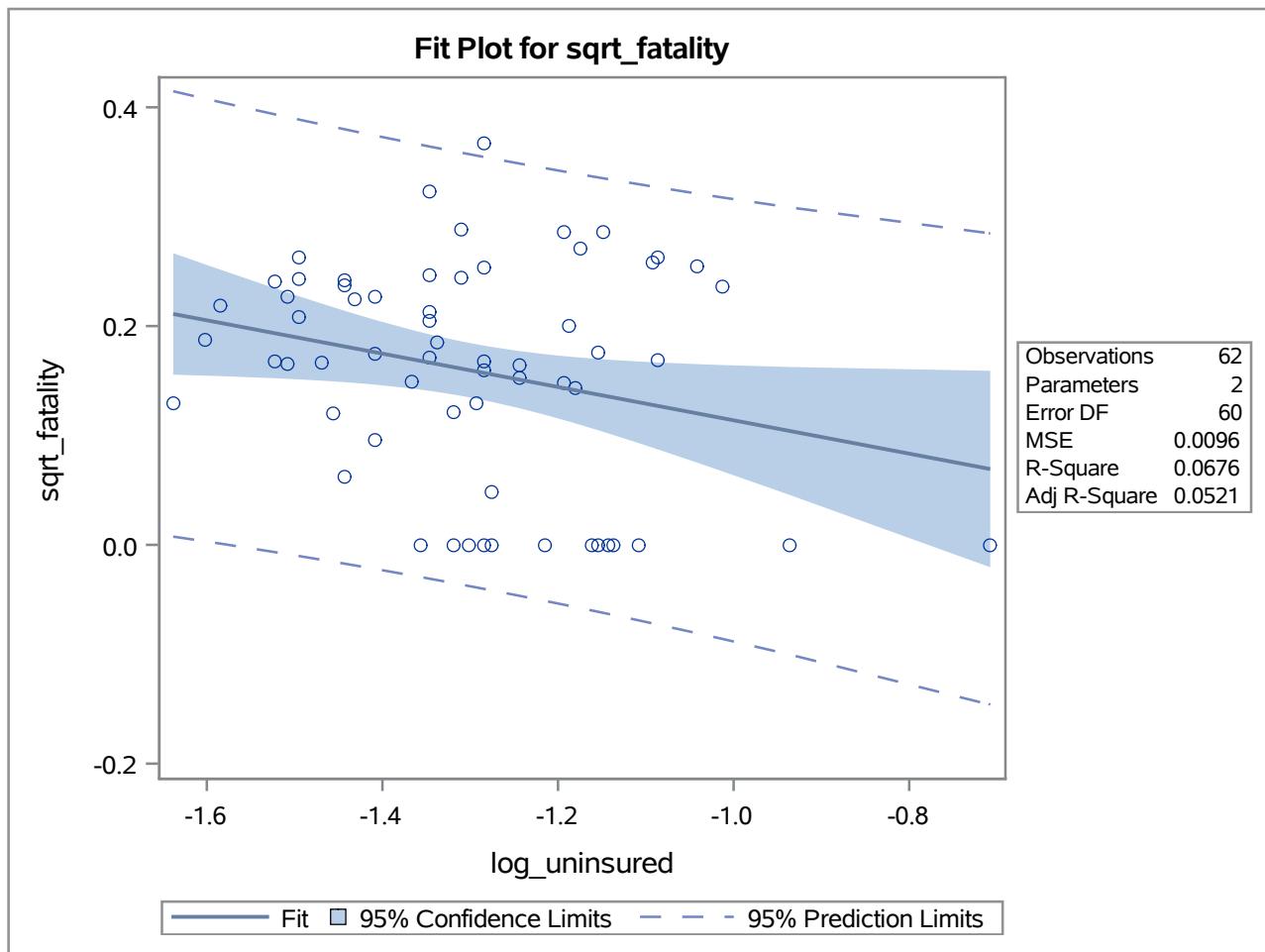
The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality

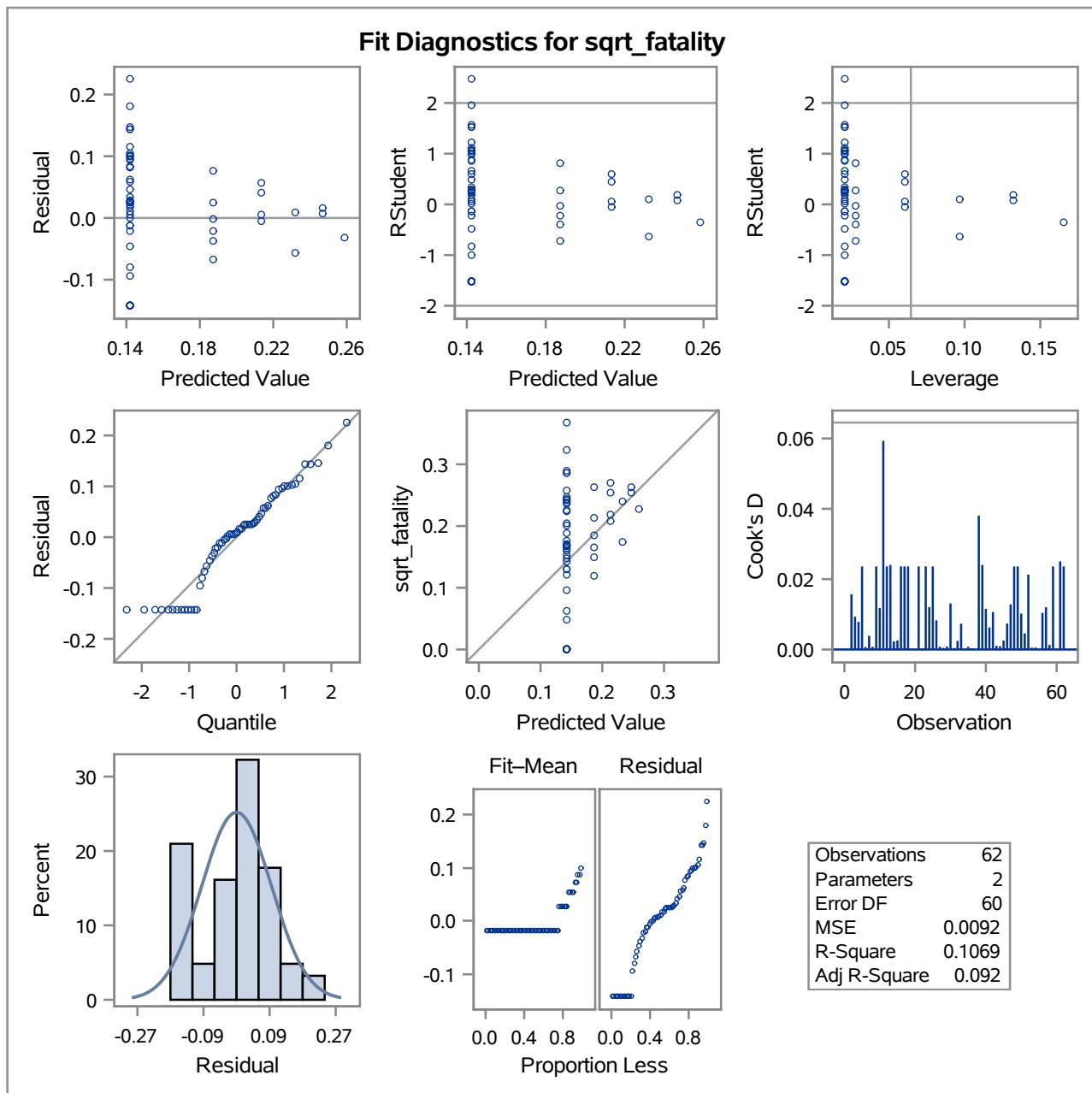
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.06595	0.06595	7.18	0.0095
Error	60	0.55089	0.00918		
Corrected Total	61	0.61684			

Root MSE	0.09582	R-Square	0.1069
Dependent Mean	0.15931	Adj R-Sq	0.0920
Coeff Var	60.14692		

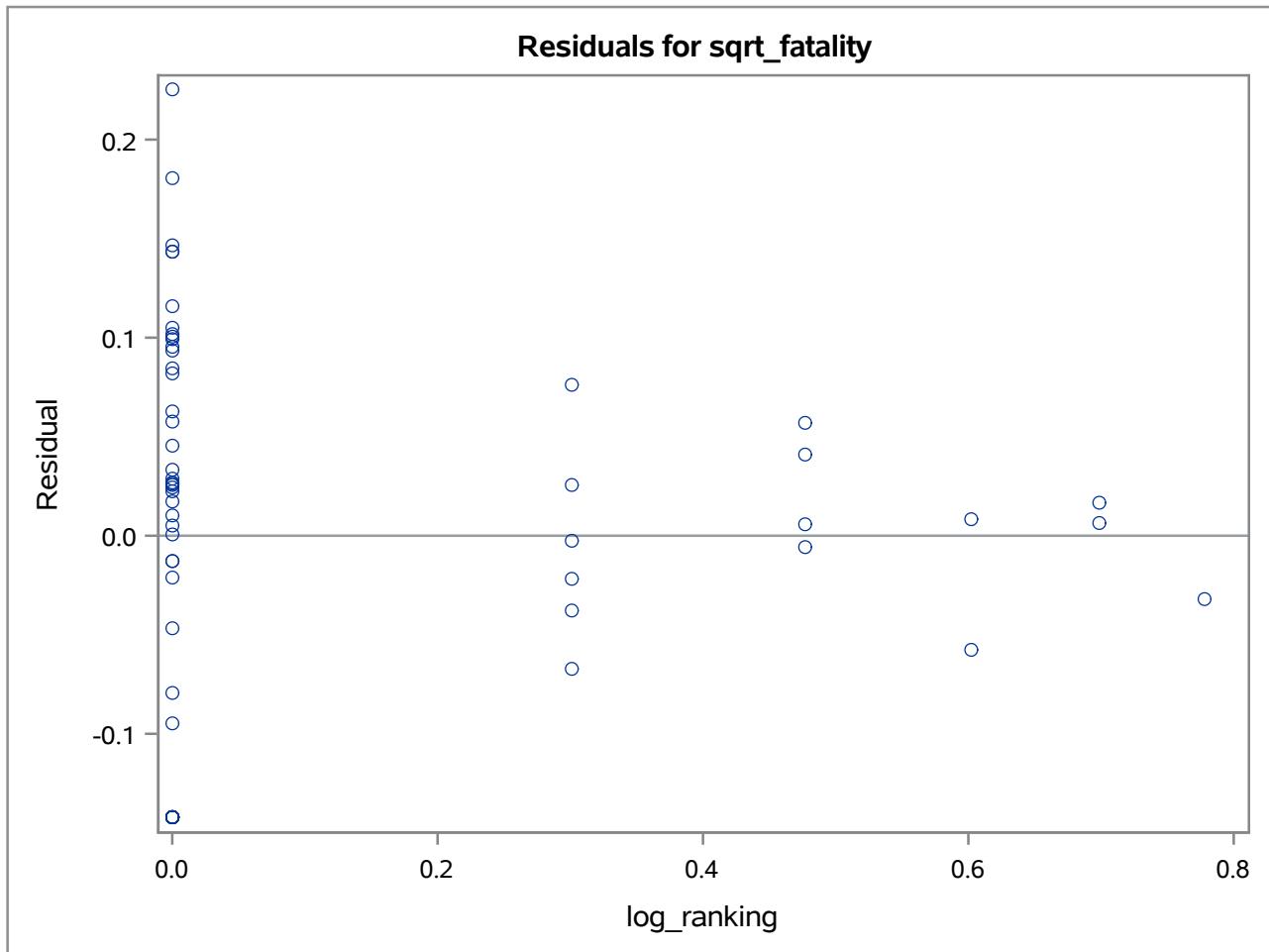
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.14220	0.01374	10.35	<.0001
log_ranking	1	0.14952	0.05579	2.68	0.0095

The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality

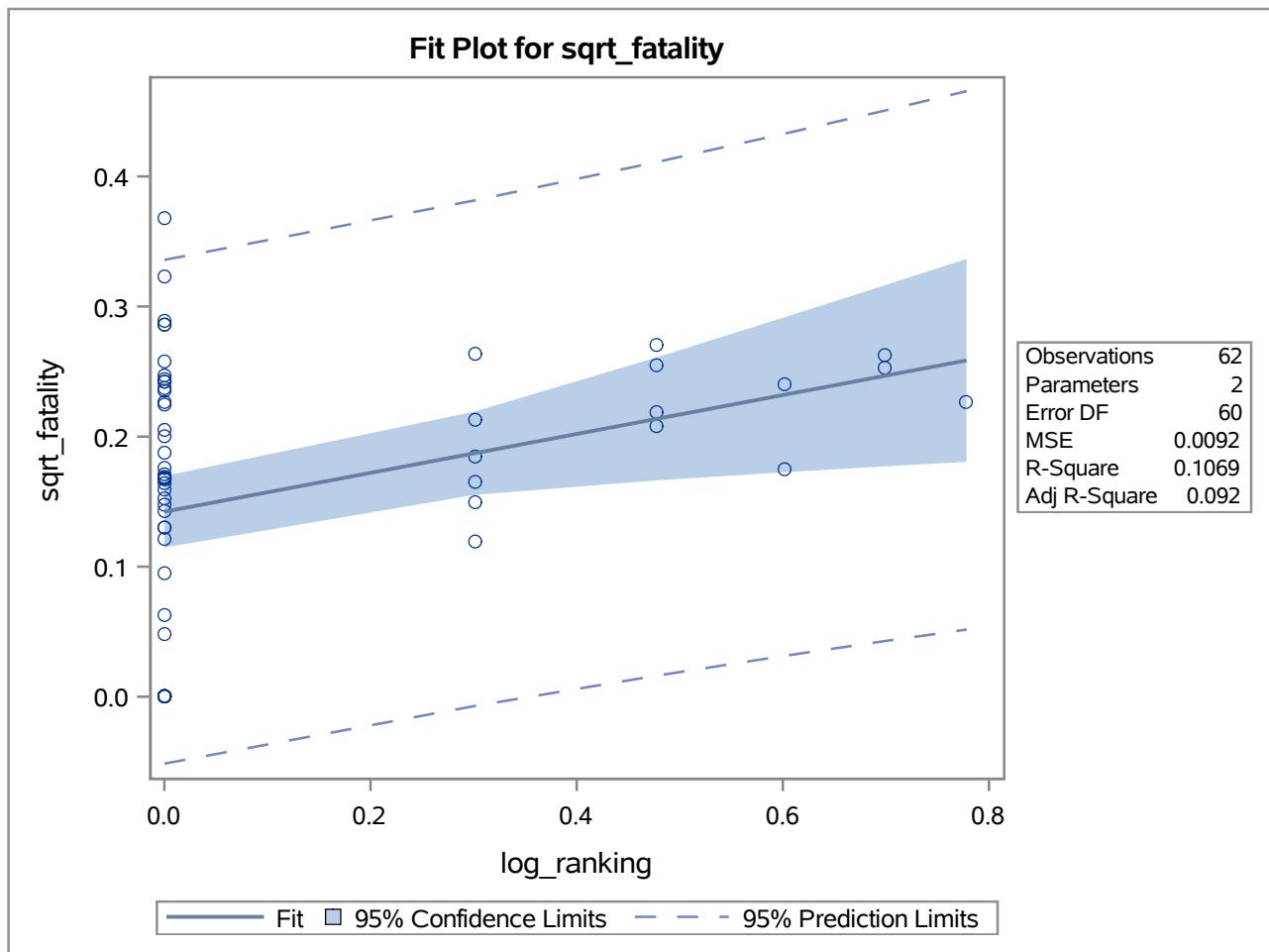


The REG Procedure Model: MODEL8

Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality

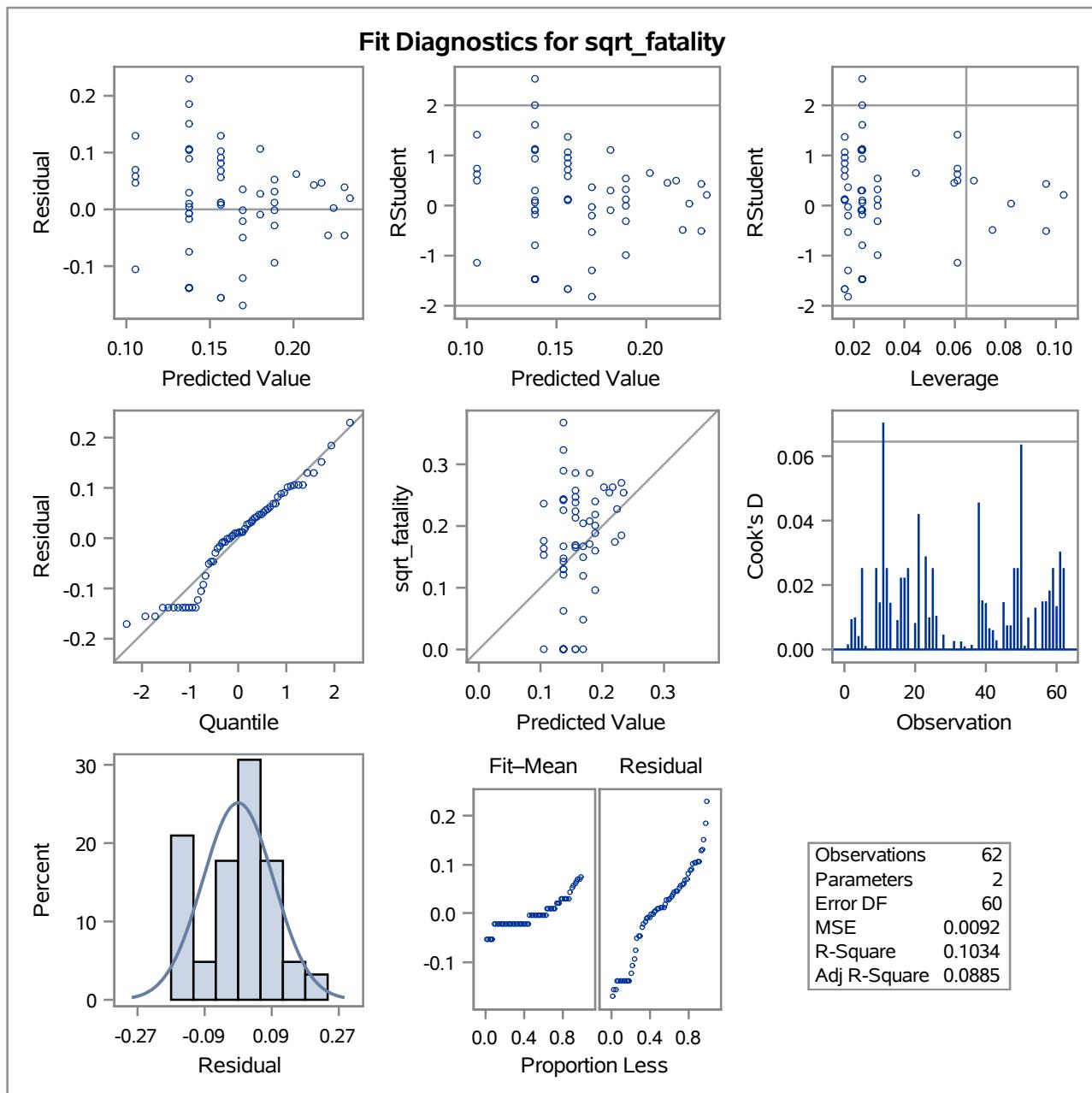
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.06381	0.06381	6.92	0.0108
Error	60	0.55303	0.00922		
Corrected Total	61	0.61684			

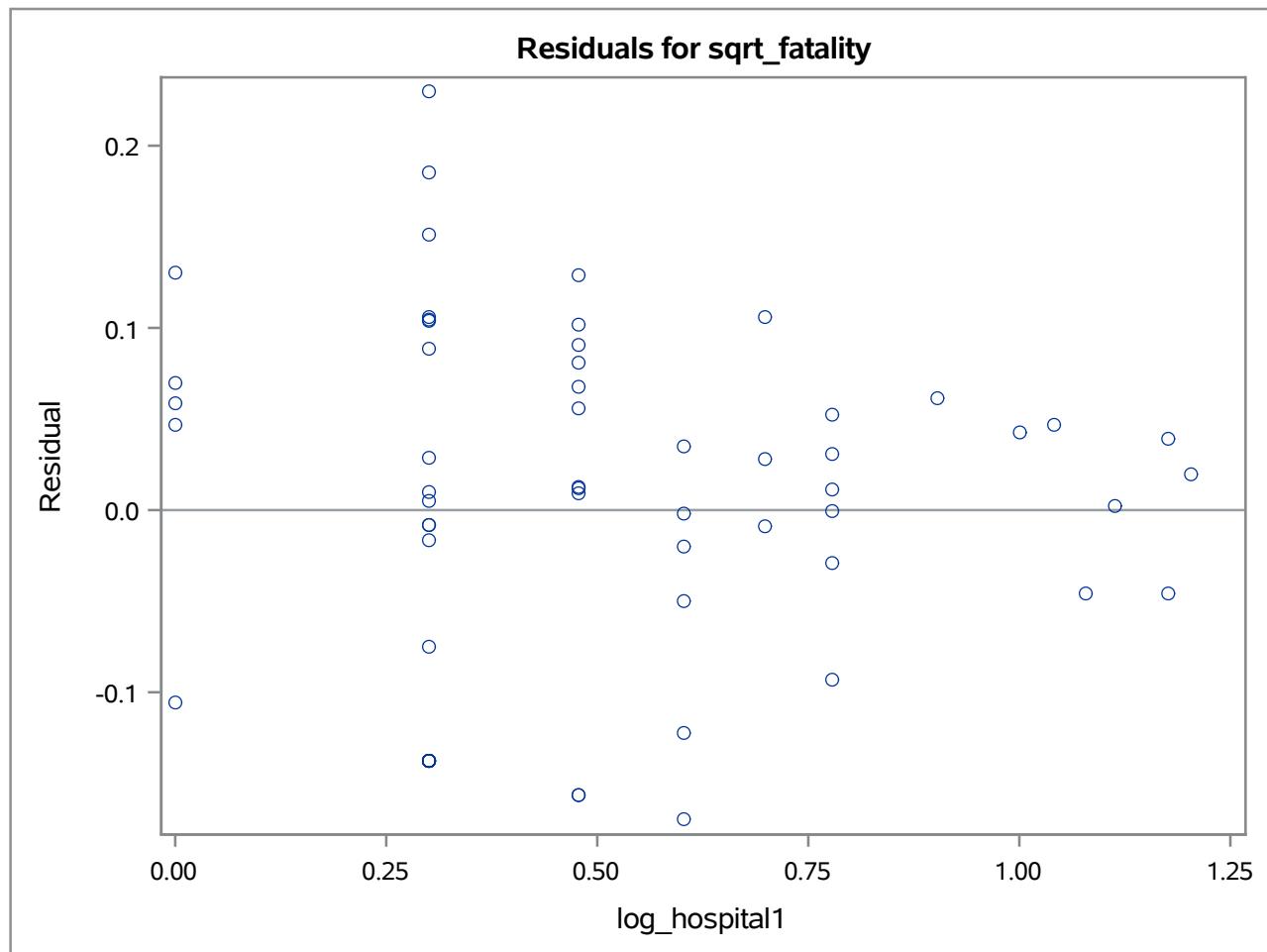
Root MSE	0.09601	R-Square	0.1034
Dependent Mean	0.15931	Adj R-Sq	0.0885
Coeff Var	60.26371		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.10570	0.02374	4.45	<.0001
log_hospital1	1	0.10638	0.04043	2.63	0.0108

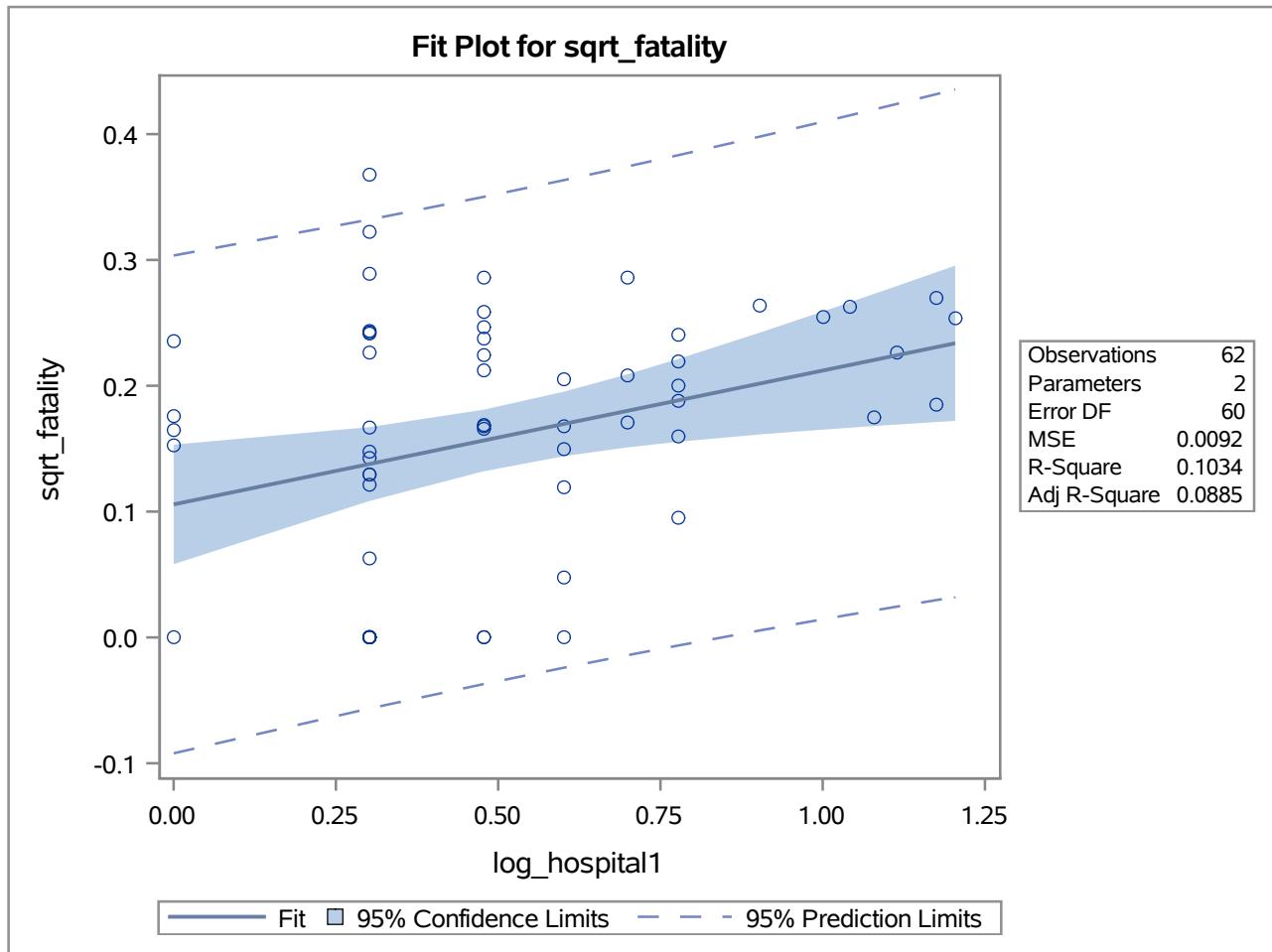
The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL10
Dependent Variable: sqrt_fatality

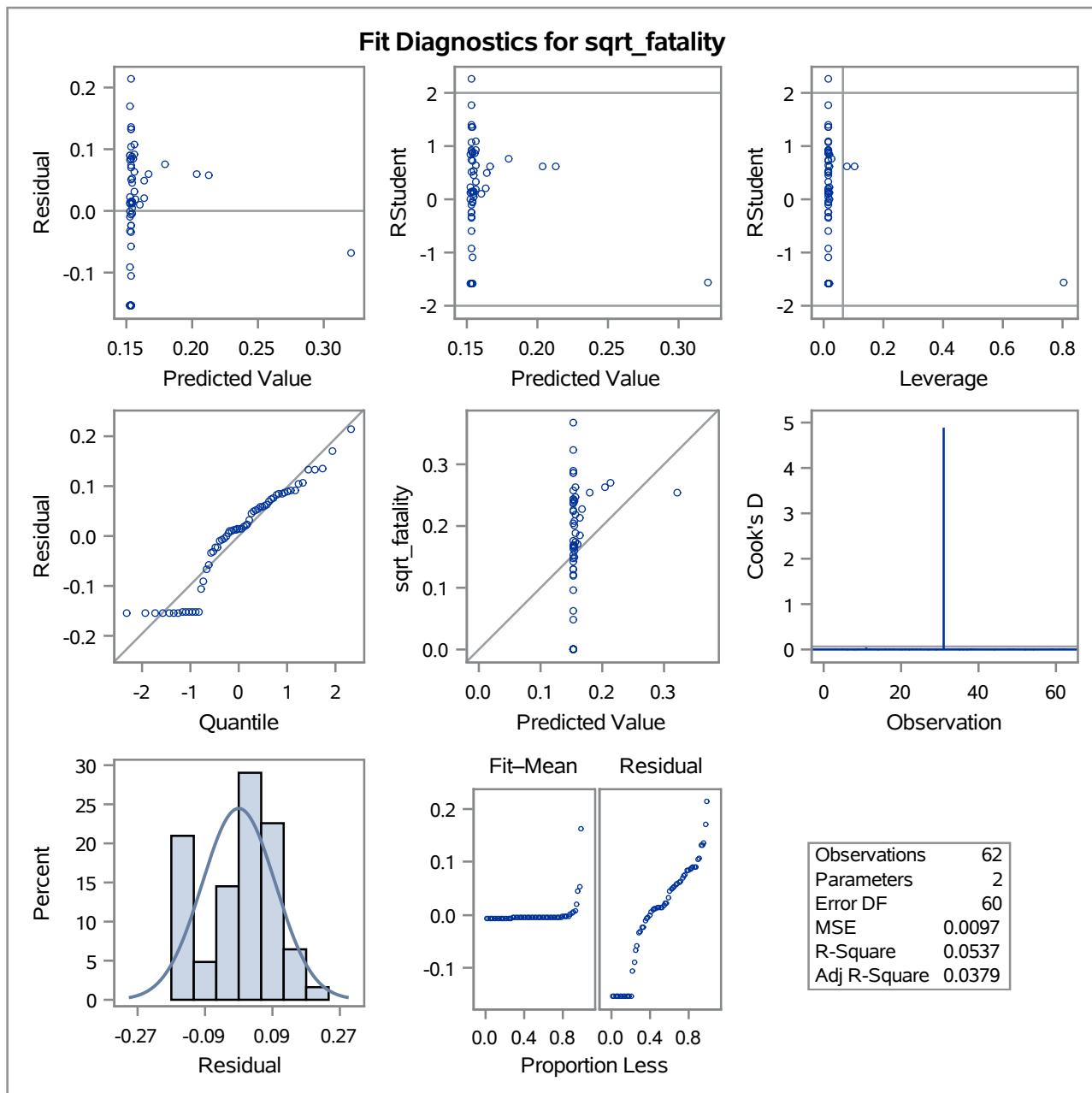
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.03311	0.03311	3.40	0.0700
Error	60	0.58373	0.00973		
Corrected Total	61	0.61684			

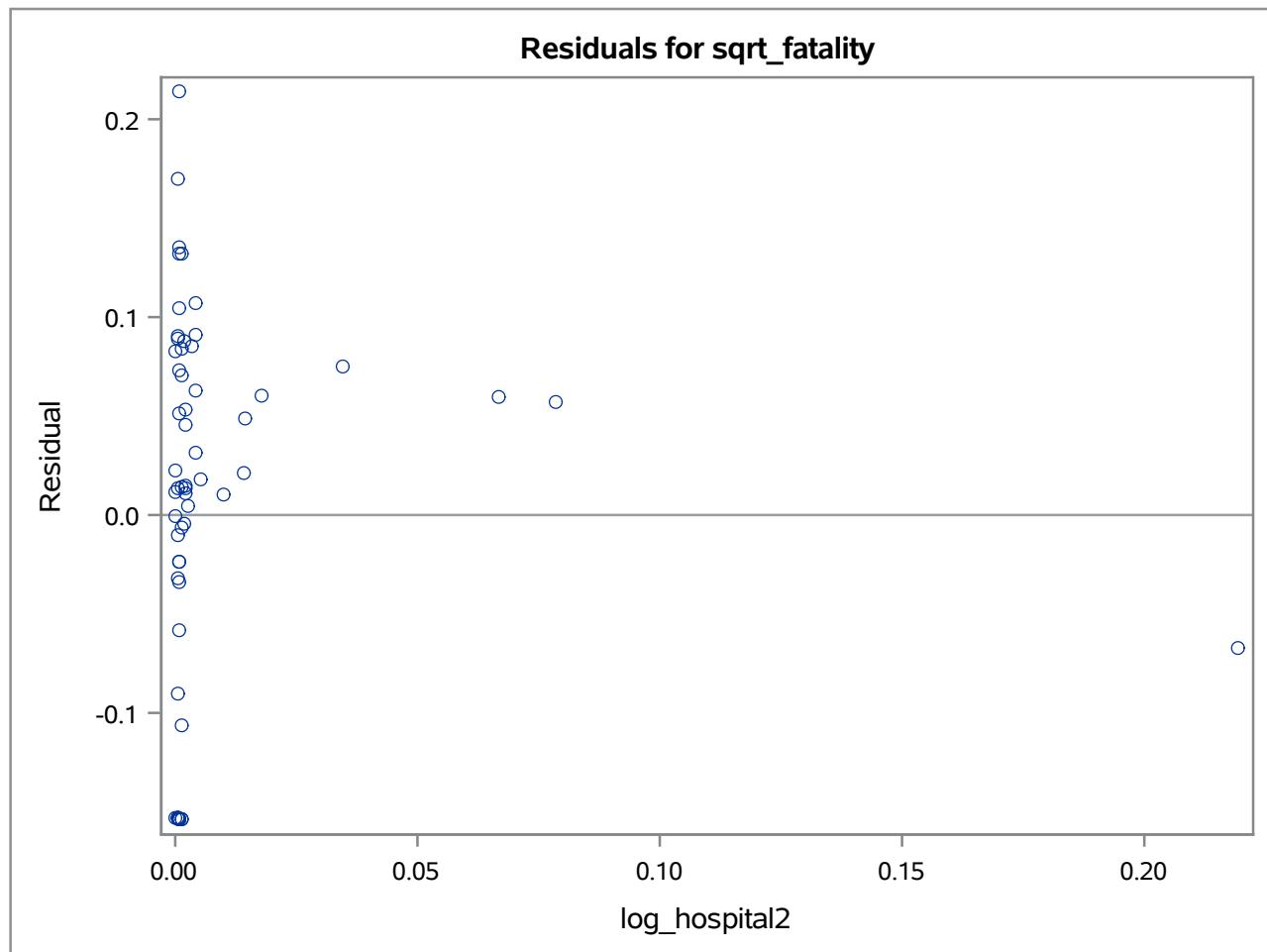
Root MSE	0.09863	R-Square	0.0537
Dependent Mean	0.15931	Adj R-Sq	0.0379
Coeff Var	61.91369		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.15280	0.01301	11.74	<.0001
log_hospital2	1	0.76601	0.41522	1.84	0.0700

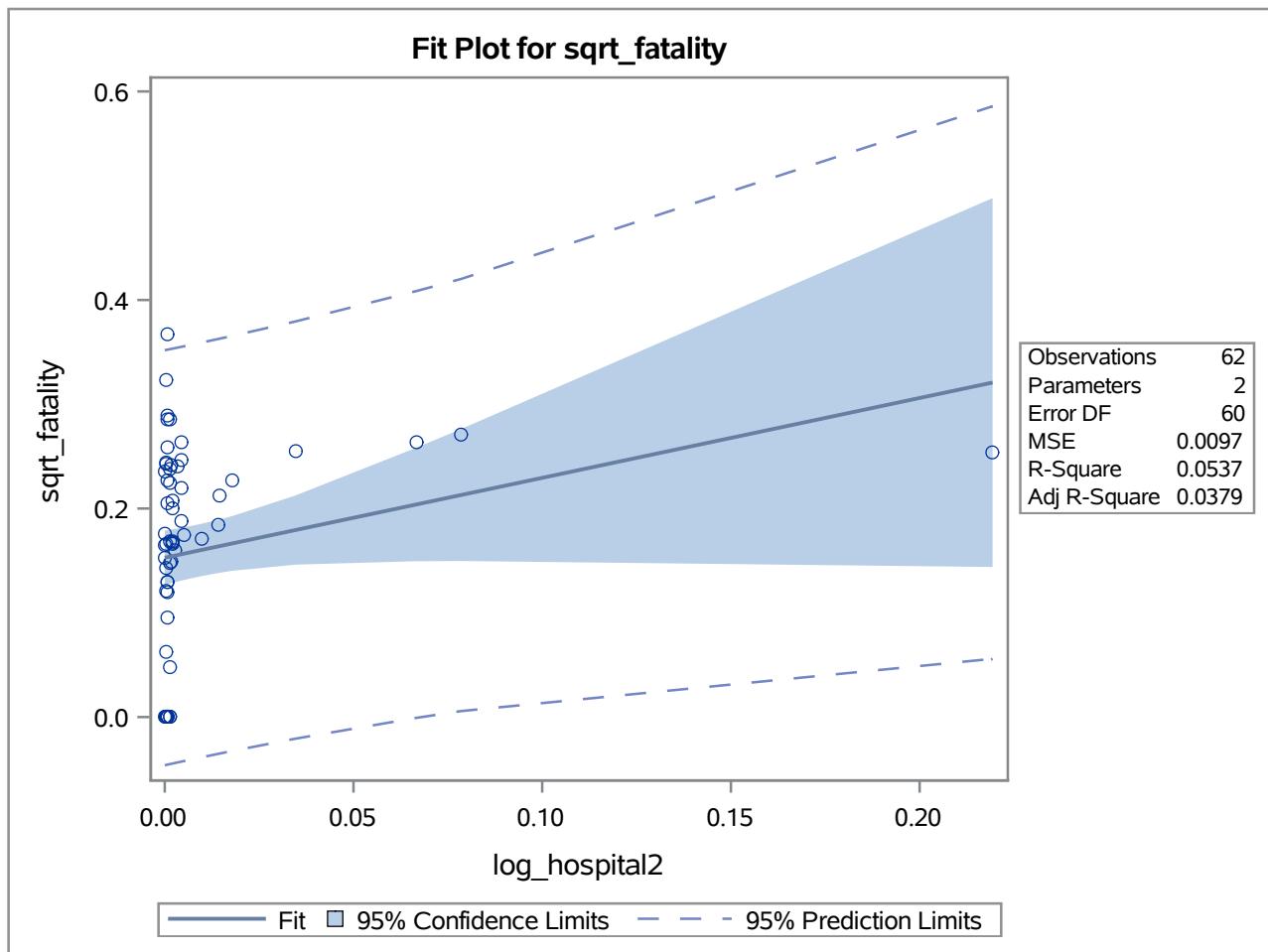
The REG Procedure
Model: MODEL10
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL10
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL10
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL11
Dependent Variable: sqrt_fatality

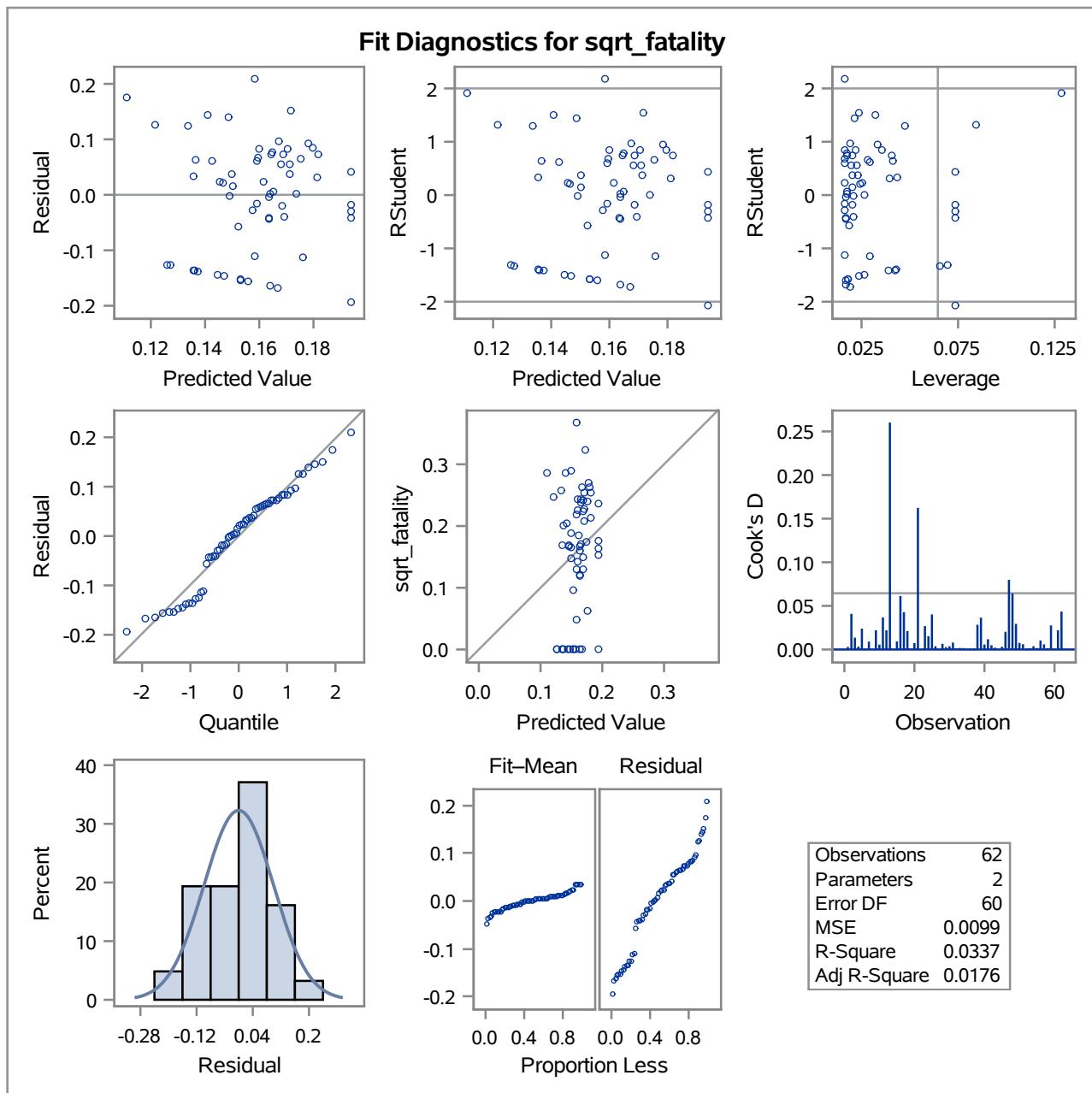
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02080	0.02080	2.09	0.1531
Error	60	0.59605	0.00993		
Corrected Total	61	0.61684			

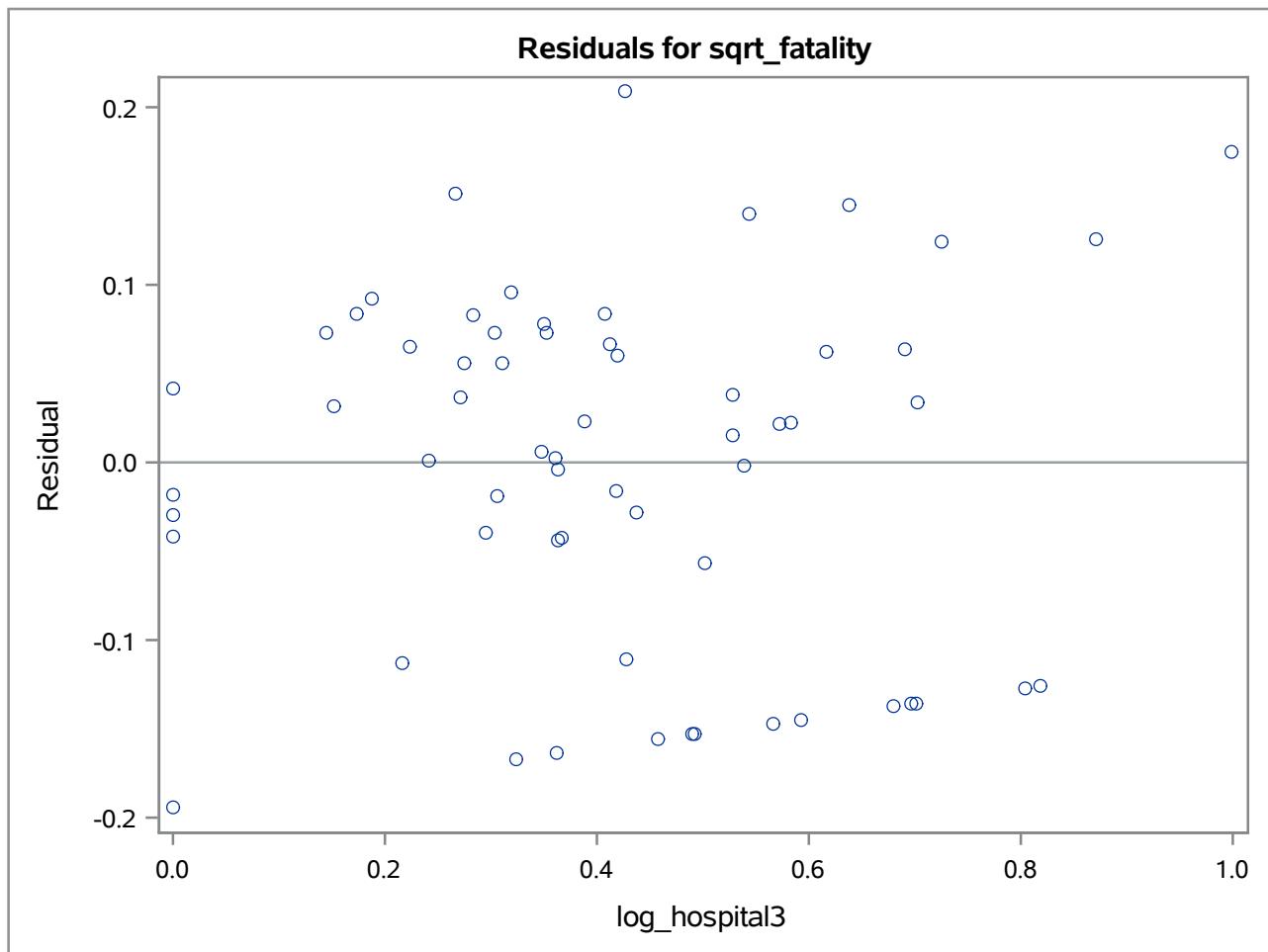
Root MSE	0.09967	R-Square	0.0337
Dependent Mean	0.15931	Adj R-Sq	0.0176
Coeff Var	62.56342		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.19389	0.02705	7.17	<.0001
log_hospital3	1	-0.08299	0.05736	-1.45	0.1531

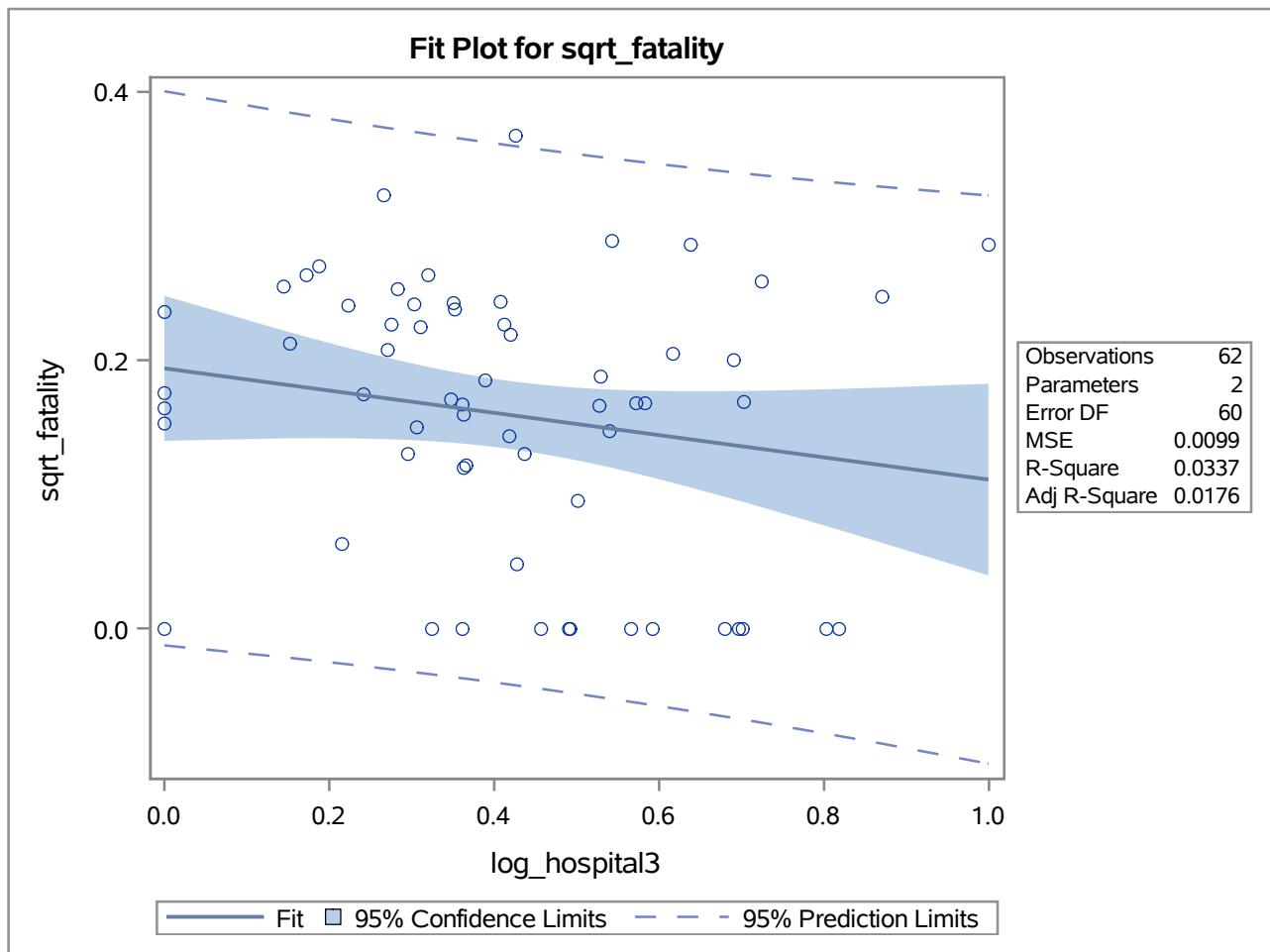
The REG Procedure
Model: MODEL11
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL11
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL11
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

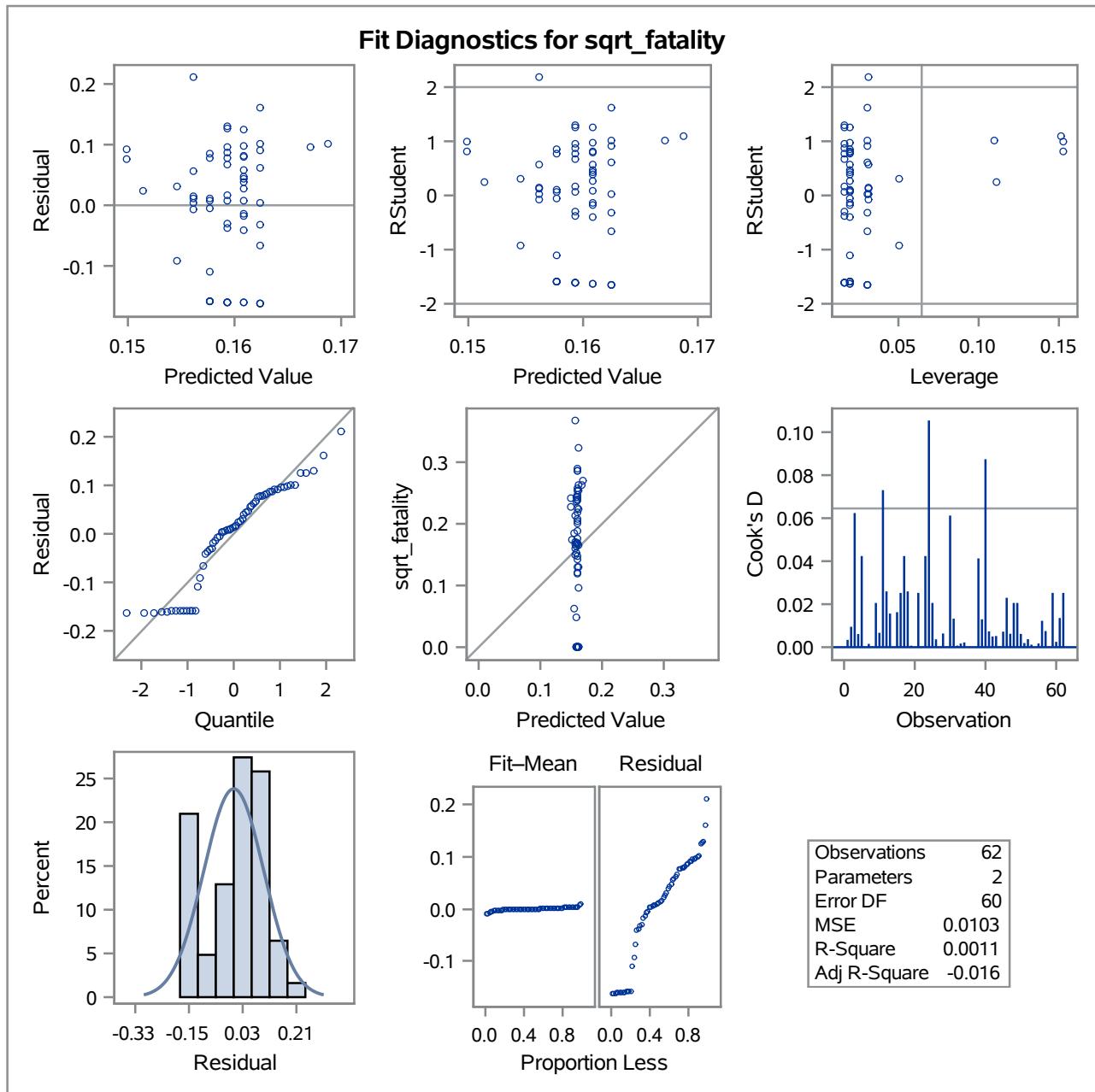
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.00065507	0.00065507	0.06	0.8015
Error	60	0.61619	0.01027		
Corrected Total	61	0.61684			

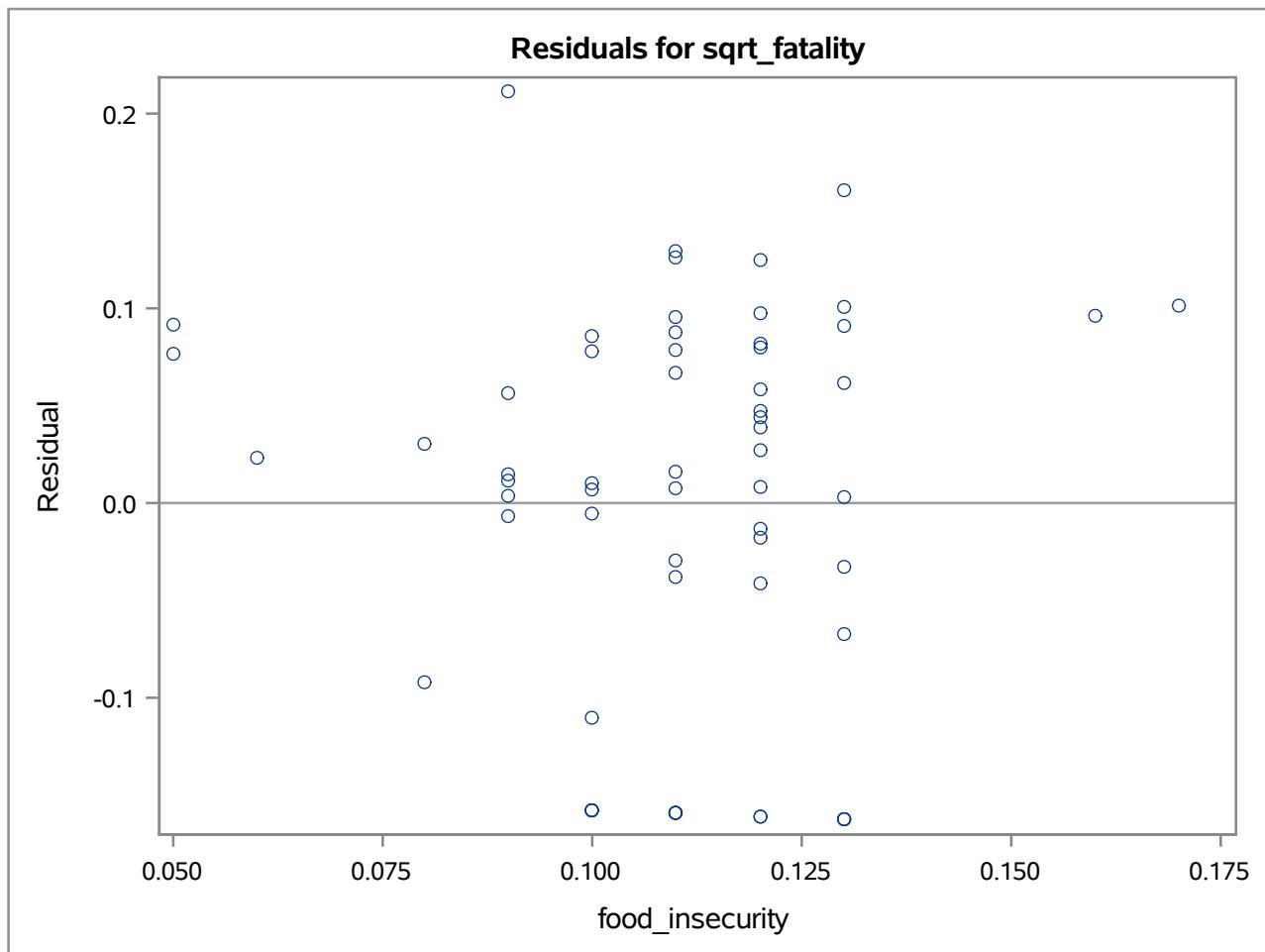
Root MSE	0.10134	R-Square	0.0011
Dependent Mean	0.15931	Adj R-Sq	-0.0156
Coeff Var	63.61166		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.14199	0.06978	2.03	0.0463
food_insecurity	1	0.15723	0.62255	0.25	0.8015

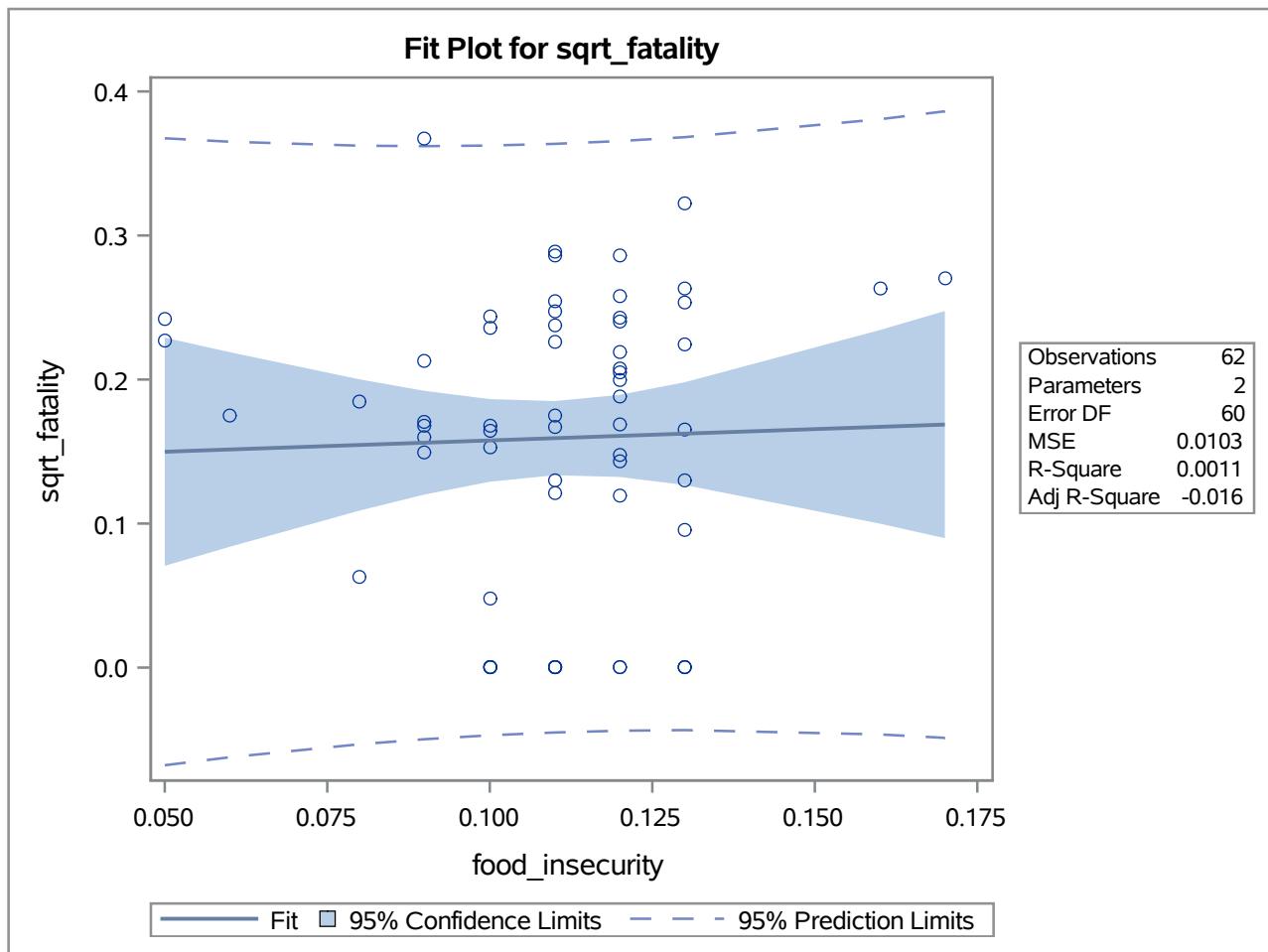
The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality

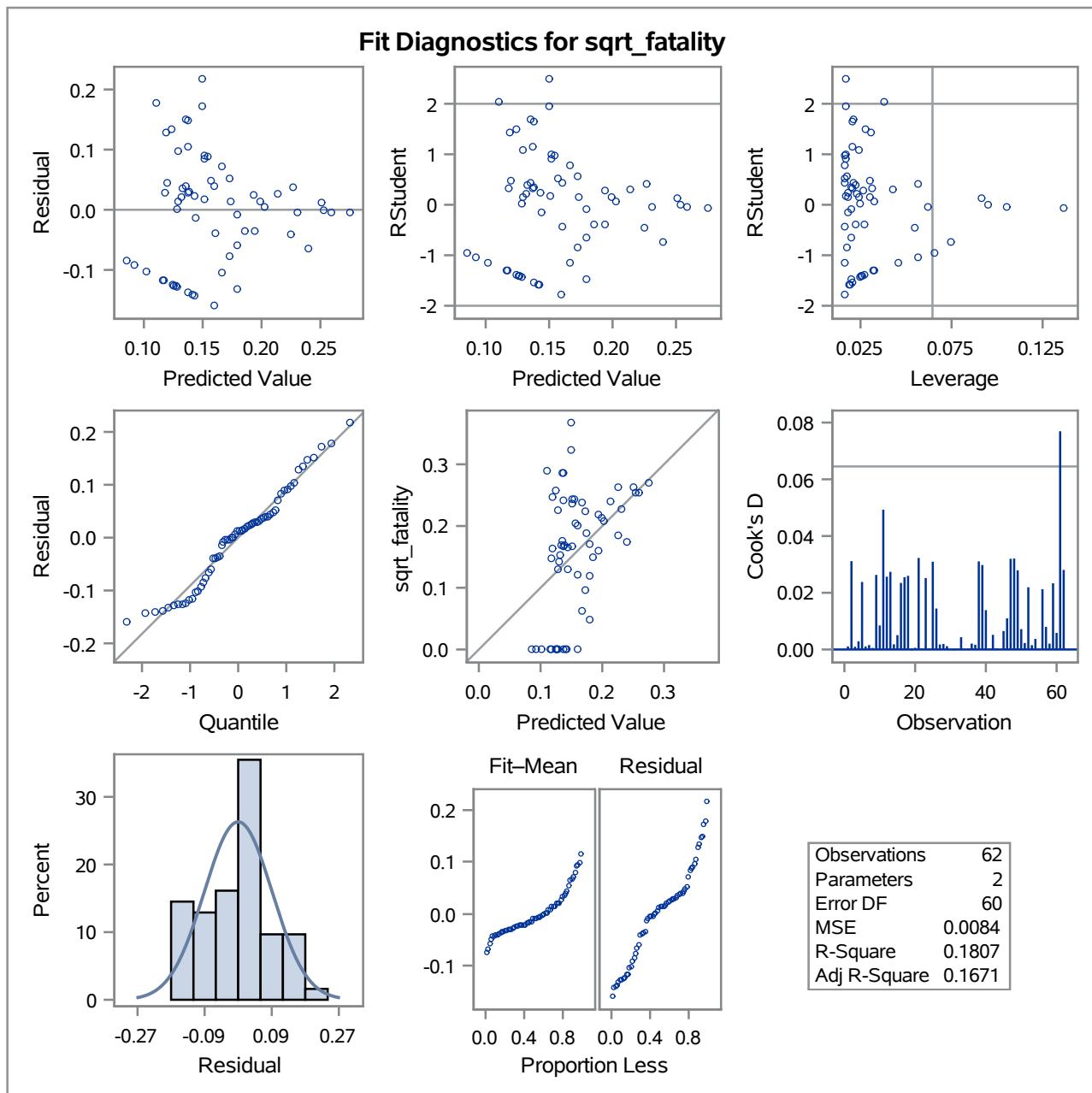
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.11147	0.11147	13.23	0.0006
Error	60	0.50537	0.00842		
Corrected Total	61	0.61684			

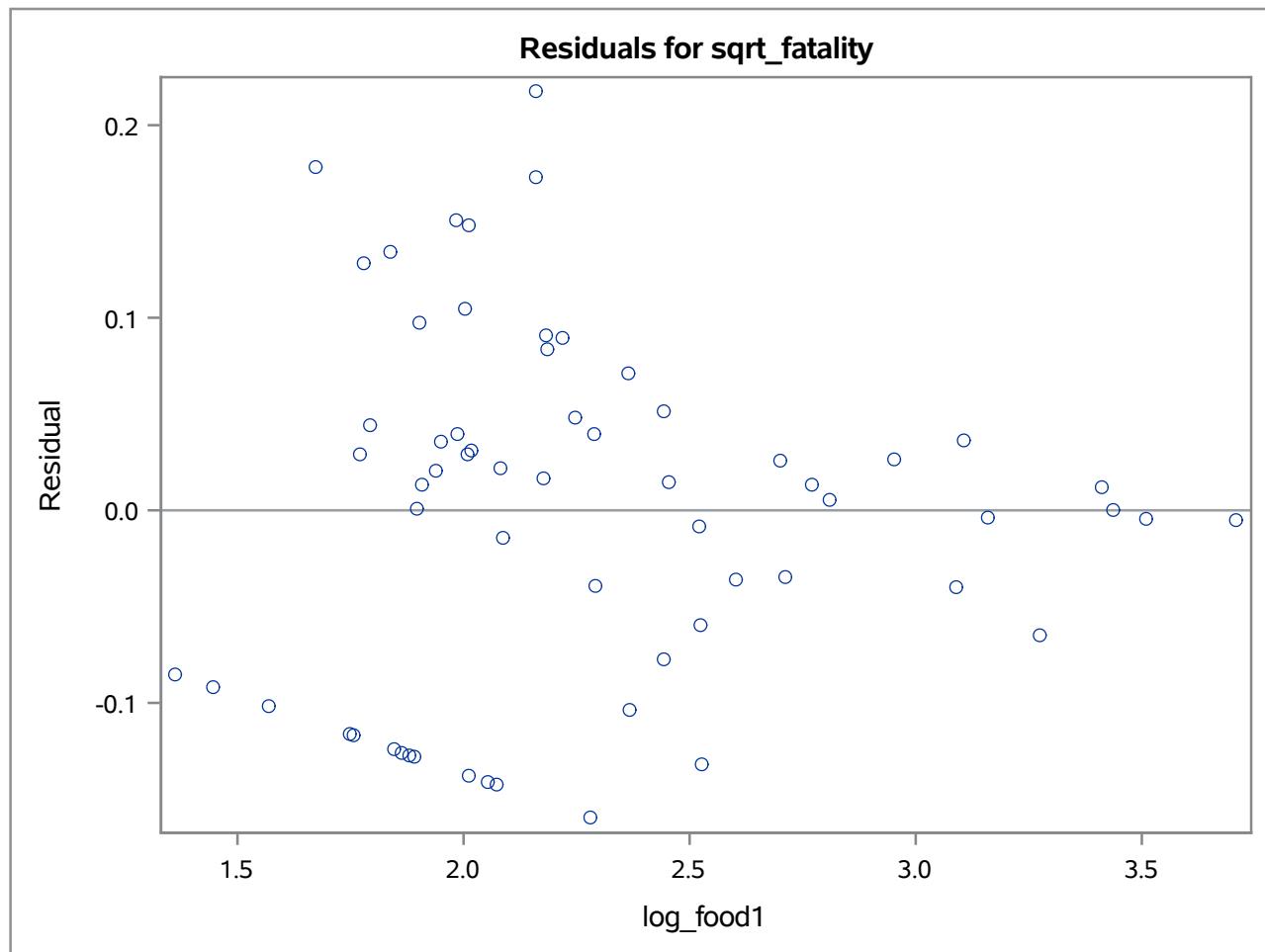
Root MSE	0.09178	R-Square	0.1807
Dependent Mean	0.15931	Adj R-Sq	0.1671
Coeff Var	57.60825		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.02515	0.05203	-0.48	0.6305
log_food1	1	0.08099	0.02226	3.64	0.0006

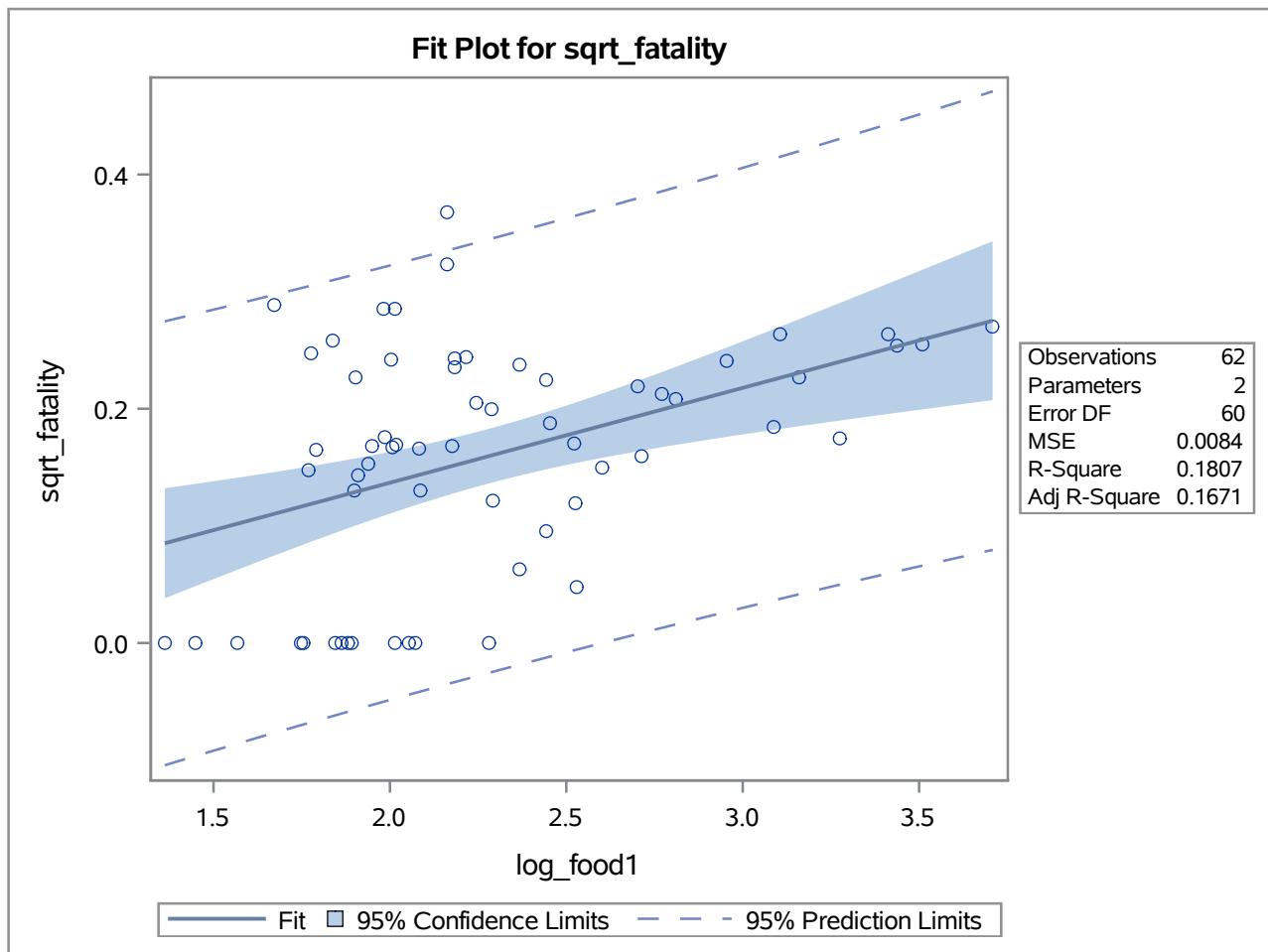
The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL2
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality

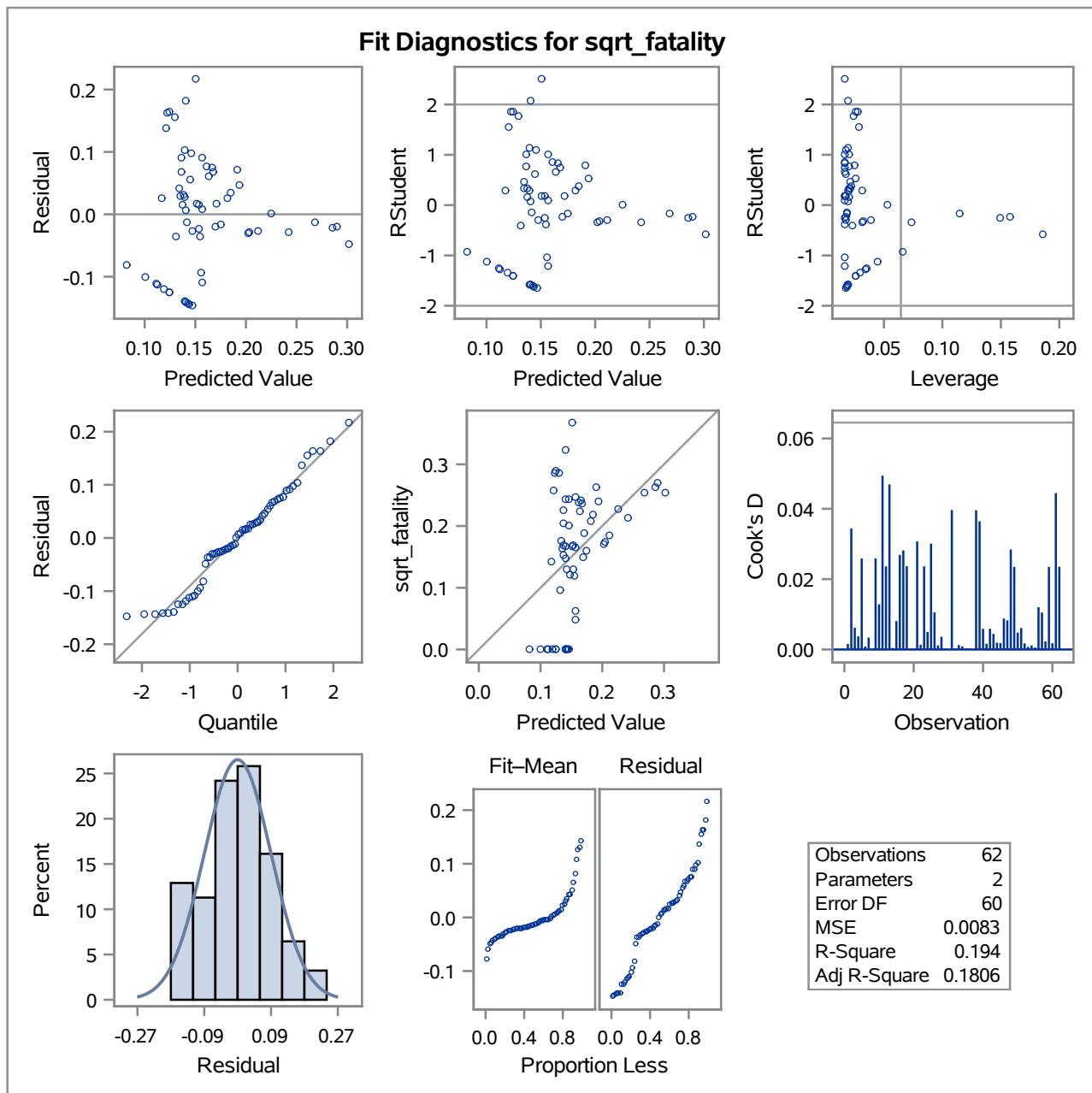
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.11969	0.11969	14.44	0.0003
Error	60	0.49716	0.00829		
Corrected Total	61	0.61684			

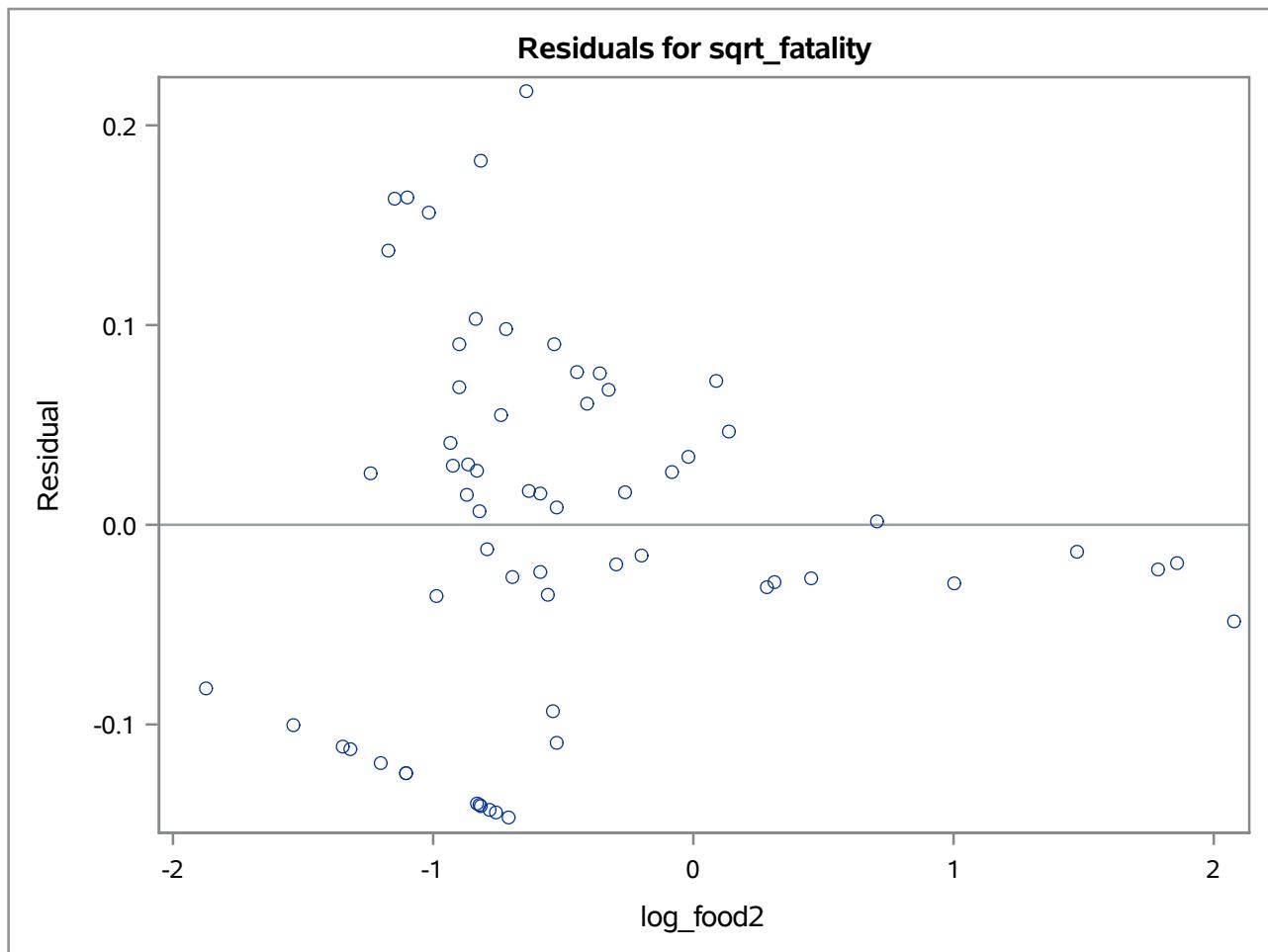
Root MSE	0.09103	R-Square	0.1940
Dependent Mean	0.15931	Adj R-Sq	0.1806
Coeff Var	57.13825		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.18612	0.01354	13.74	<.0001
log_food2	1	0.05565	0.01464	3.80	0.0003

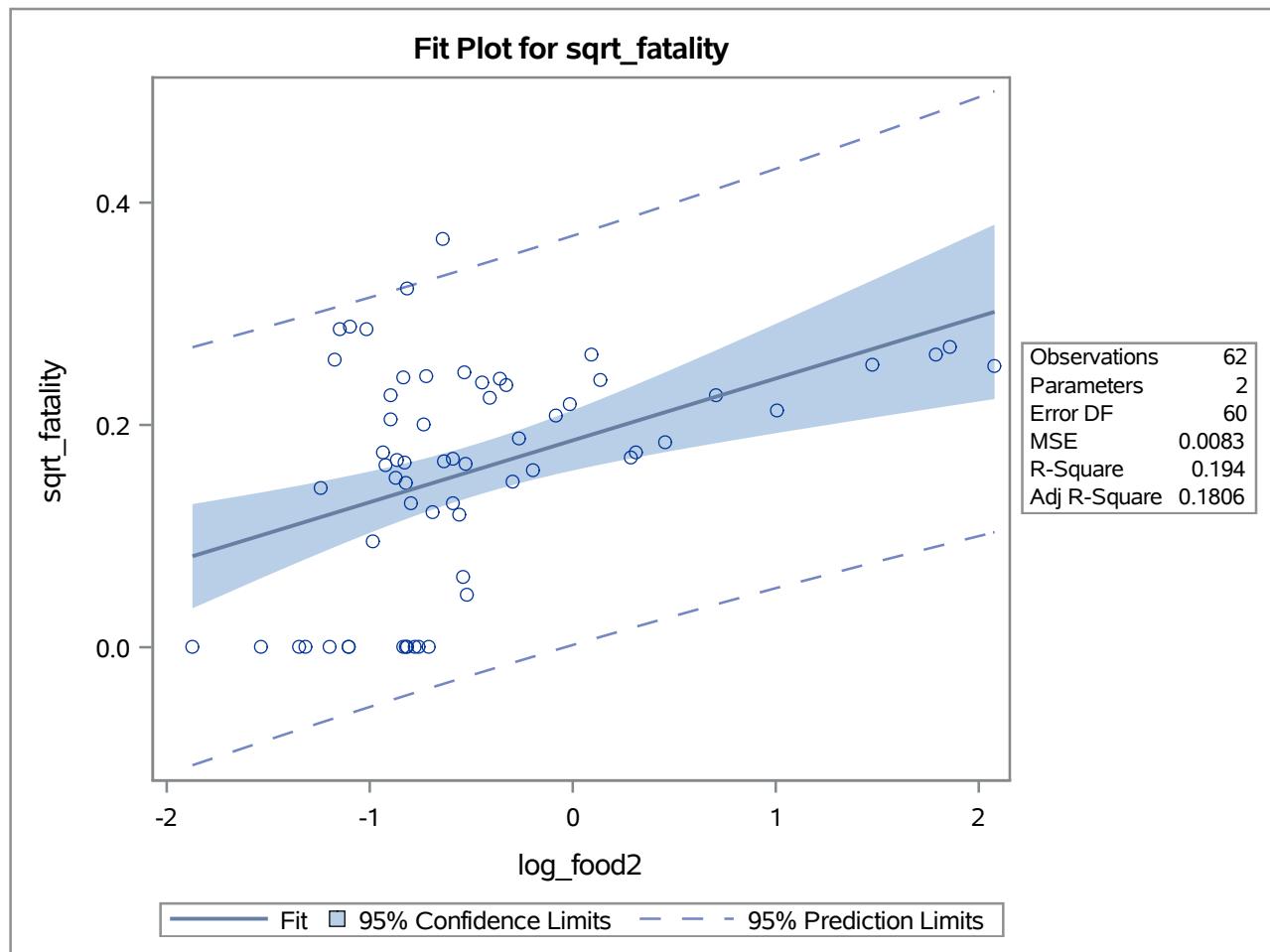
The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL3
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality

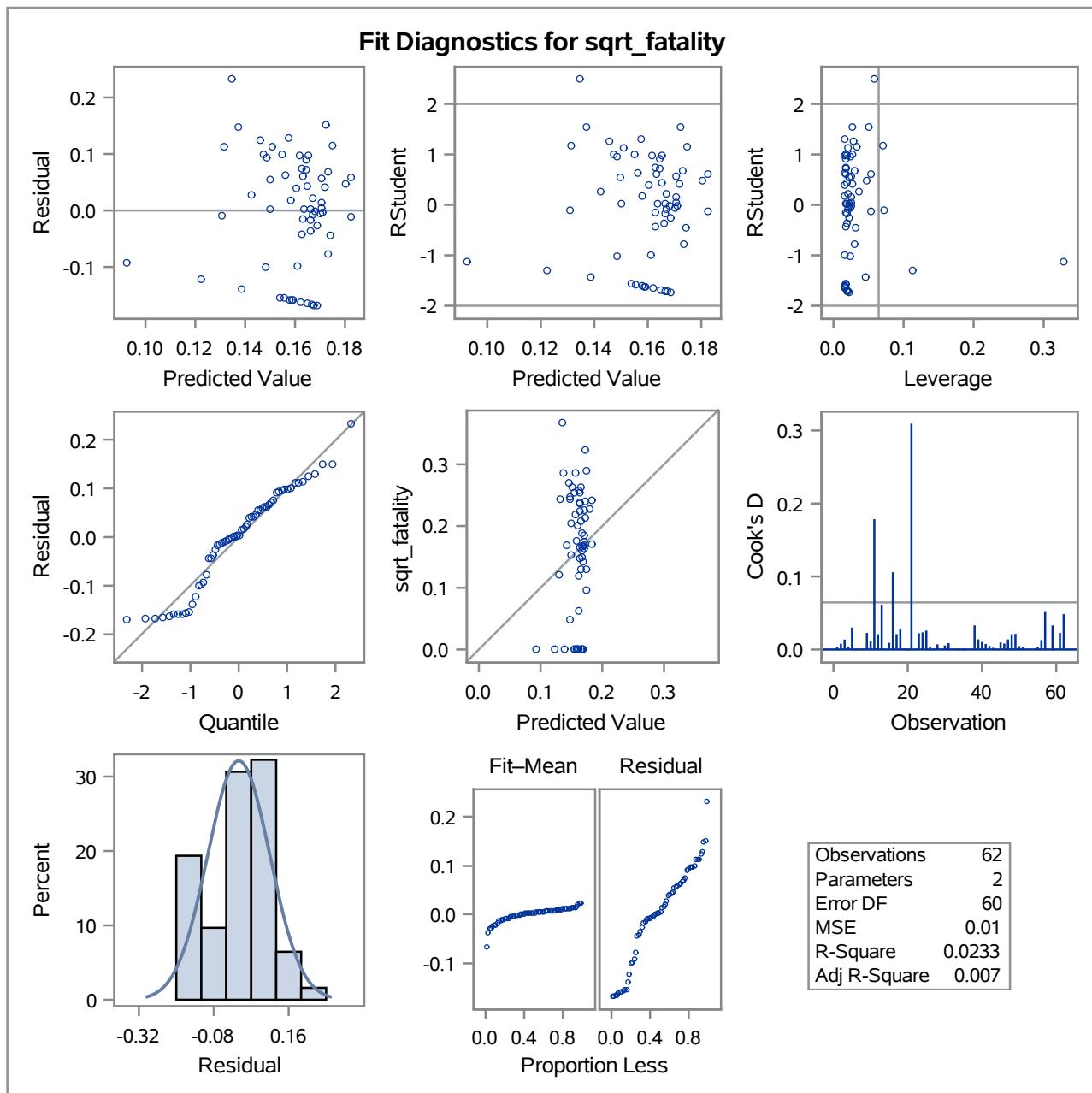
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.01435	0.01435	1.43	0.2366
Error	60	0.60249	0.01004		
Corrected Total	61	0.61684			

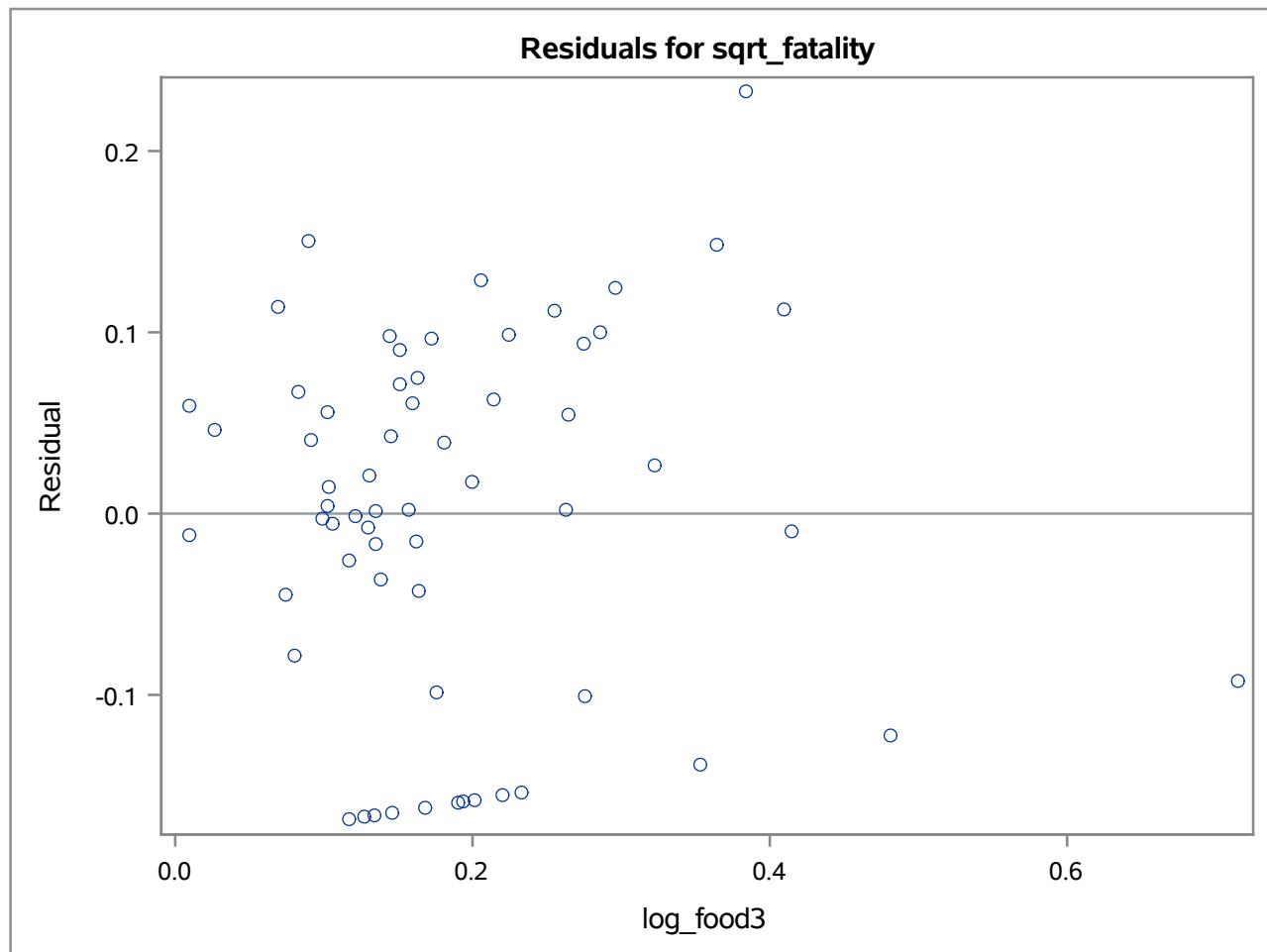
Root MSE	0.10021	R-Square	0.0233
Dependent Mean	0.15931	Adj R-Sq	0.0070
Coeff Var	62.90074		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.18365	0.02401	7.65	<.0001
log_food3	1	-0.12770	0.10682	-1.20	0.2366

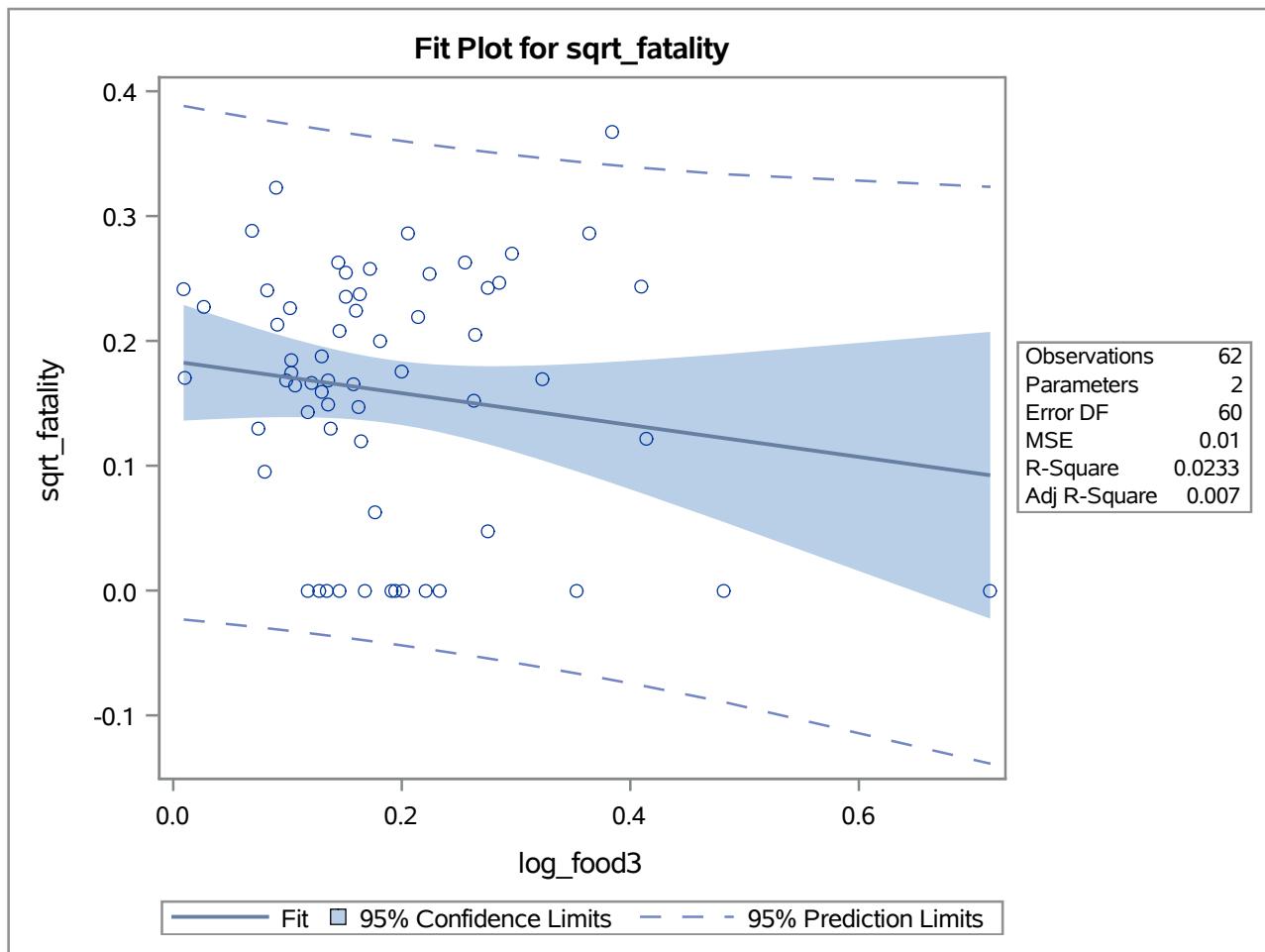
The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL4
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality

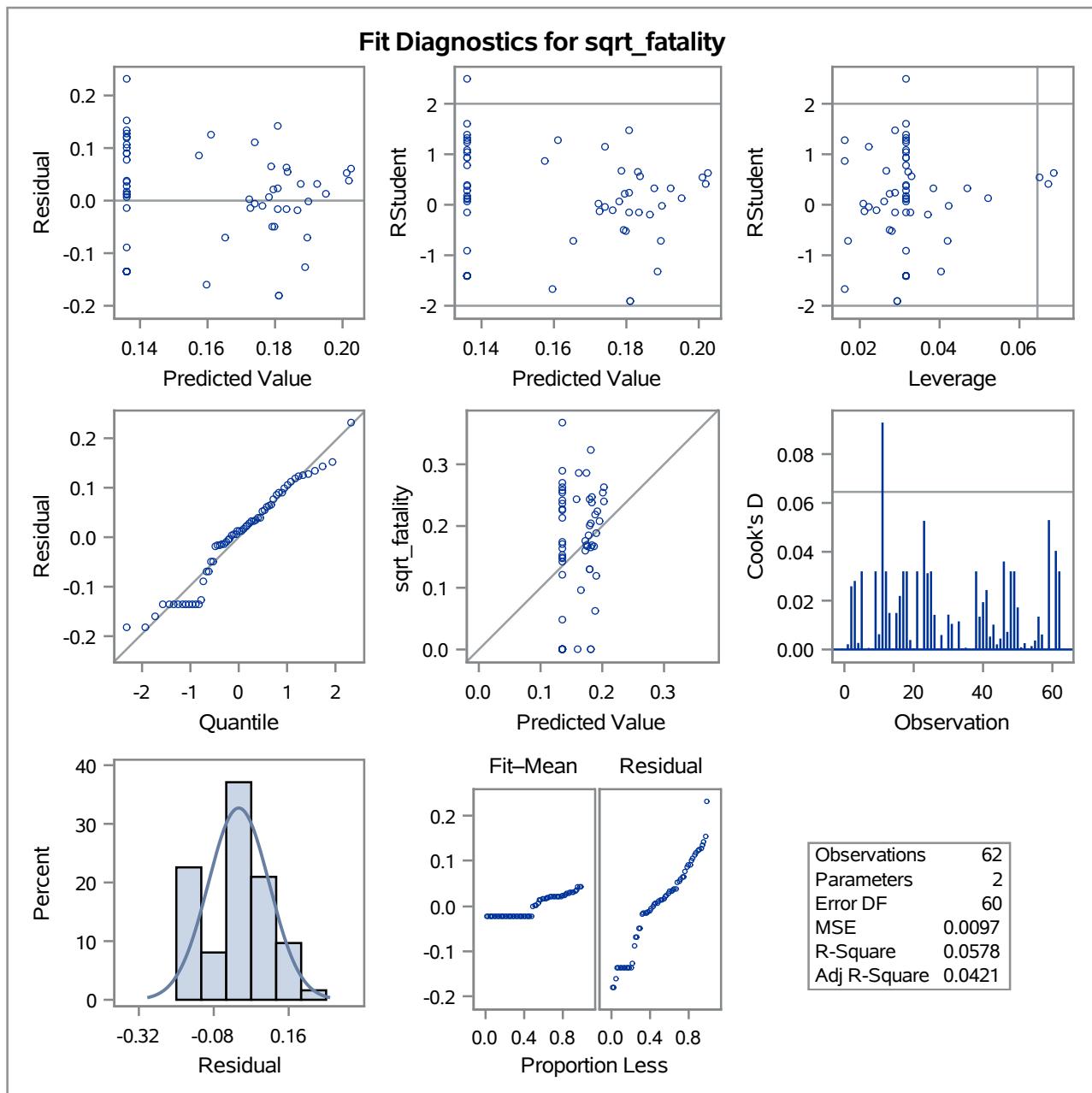
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.03563	0.03563	3.68	0.0599
Error	60	0.58122	0.00969		
Corrected Total	61	0.61684			

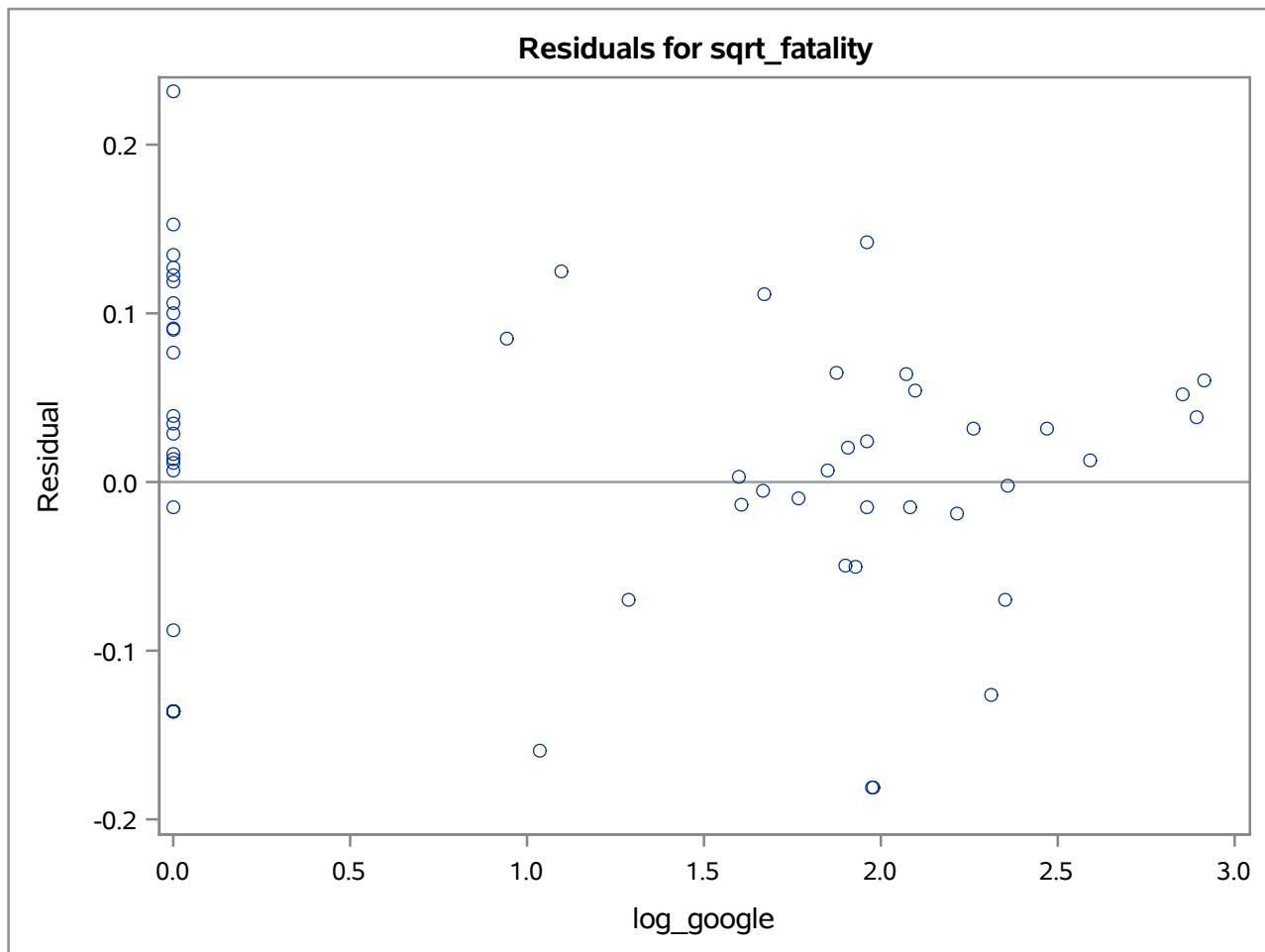
Root MSE	0.09842	R-Square	0.0578
Dependent Mean	0.15931	Adj R-Sq	0.0421
Coeff Var	61.78017		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.13594	0.01746	7.79	<.0001
log_google	1	0.02284	0.01191	1.92	0.0599

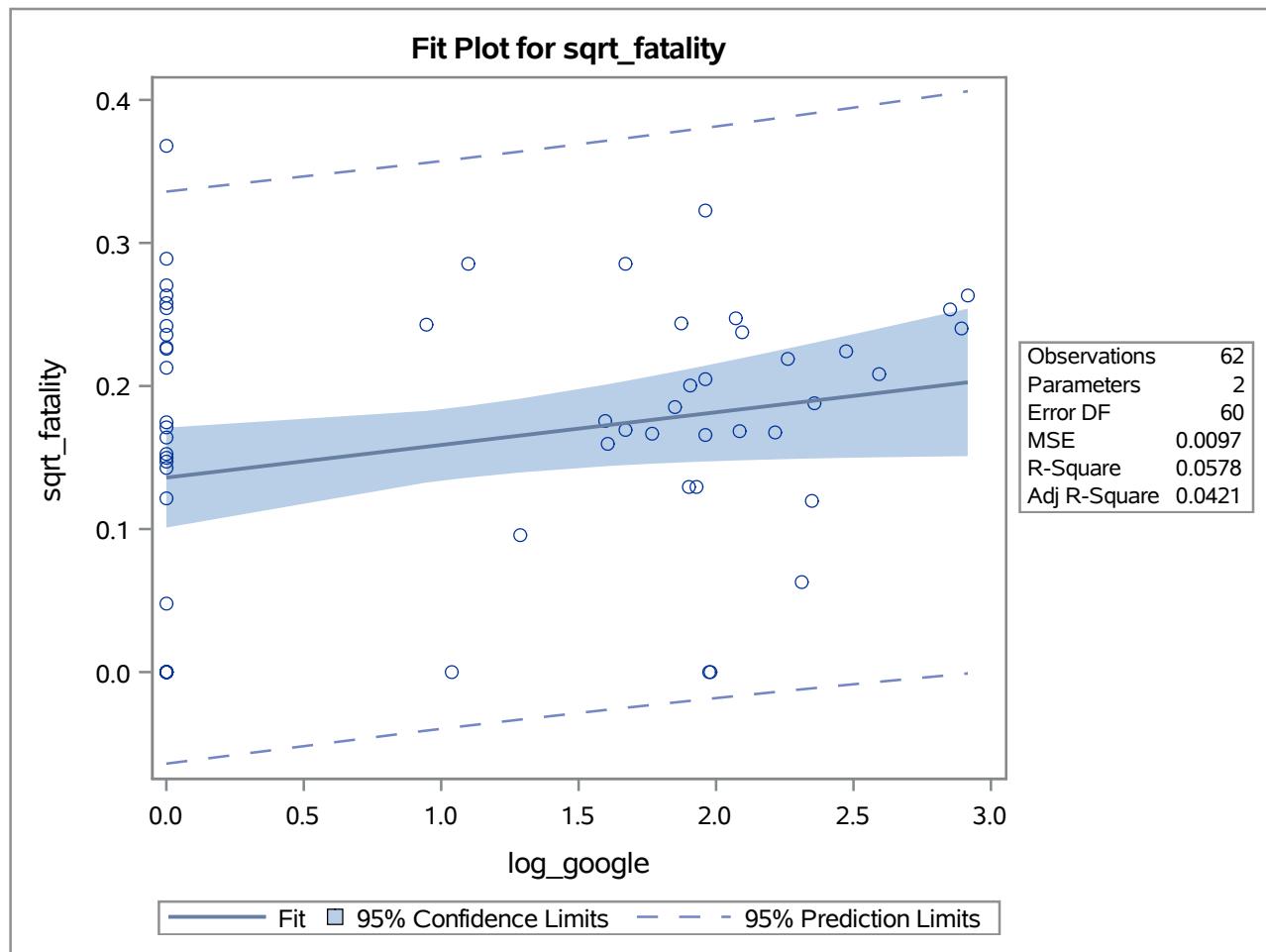
The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL5
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality

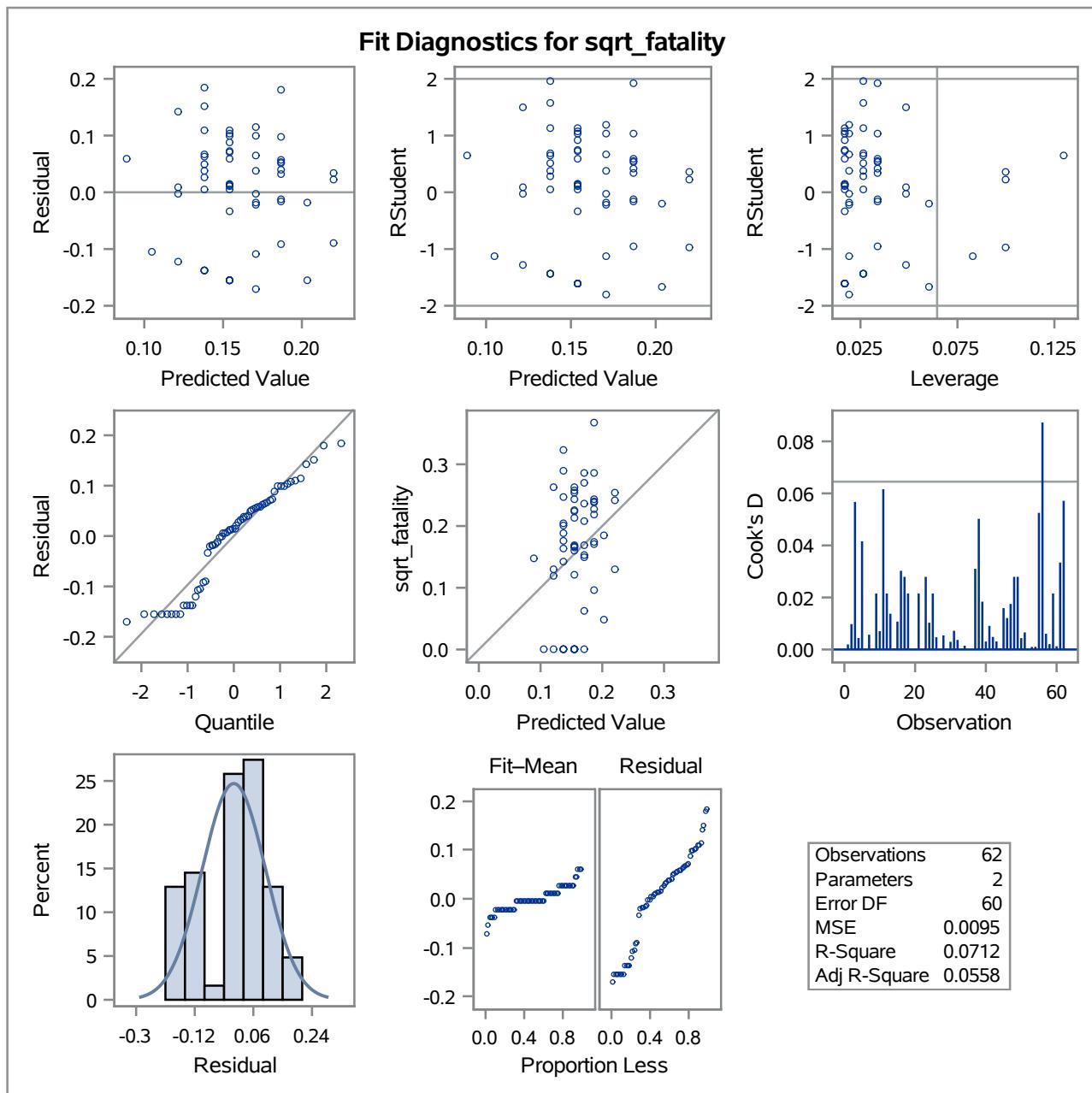
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.04394	0.04394	4.60	0.0360
Error	60	0.57290	0.00955		
Corrected Total	61	0.61684			

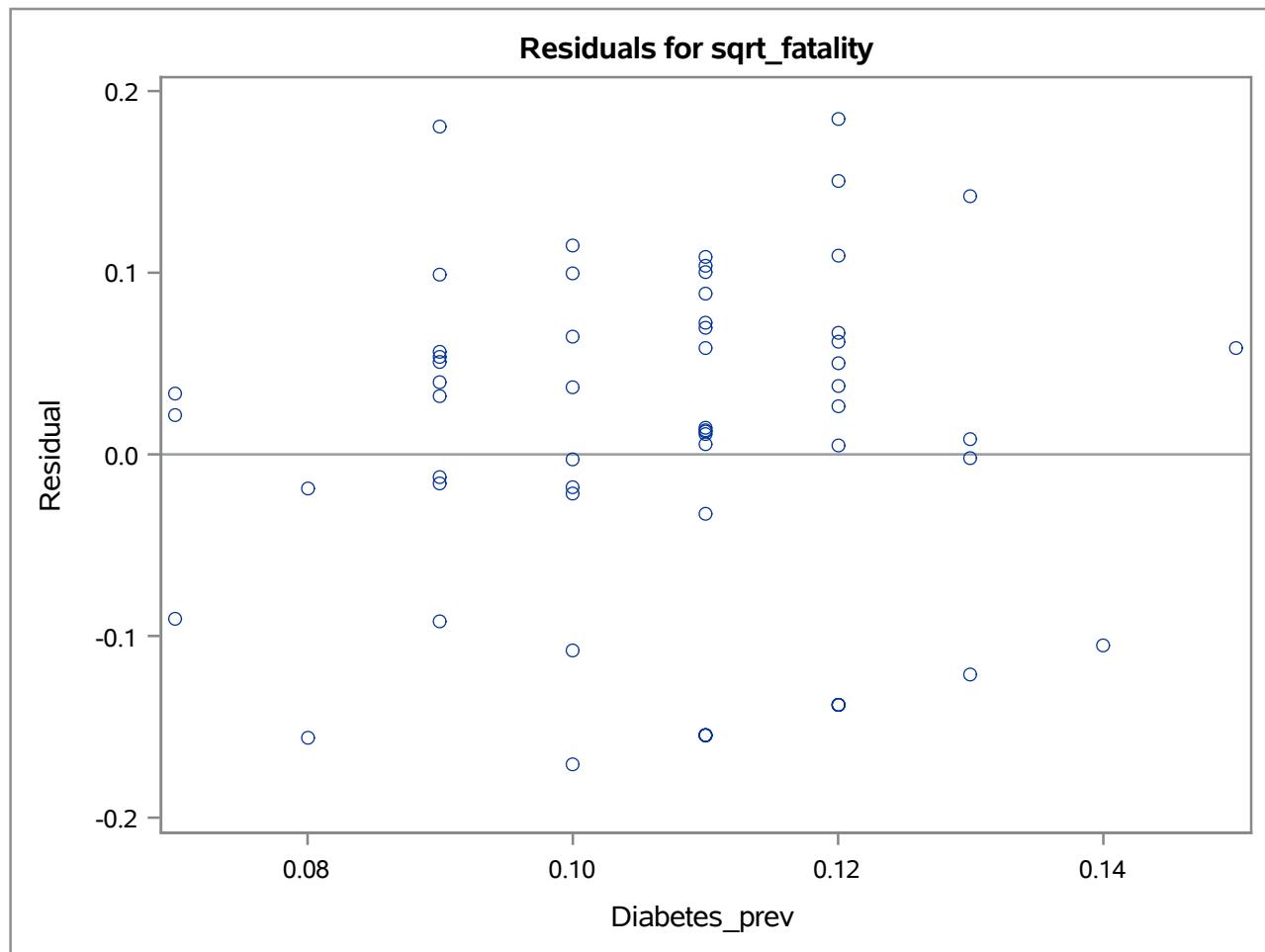
Root MSE	0.09772	R-Square	0.0712
Dependent Mean	0.15931	Adj R-Sq	0.0558
Coeff Var	61.33651		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.33480	0.08274	4.05	0.0002
Diabetes_prev	1	-1.64105	0.76495	-2.15	0.0360

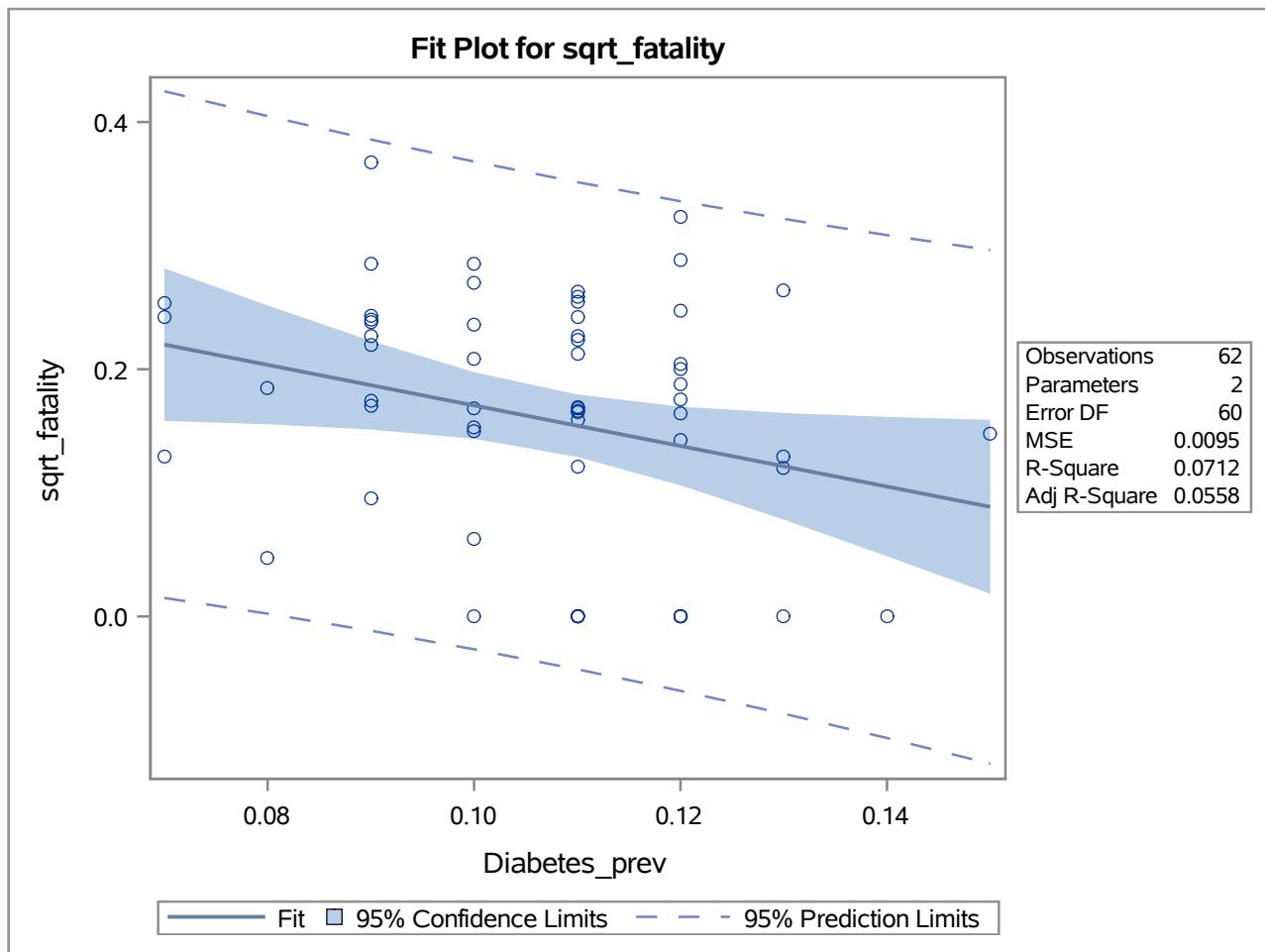
The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL6
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality

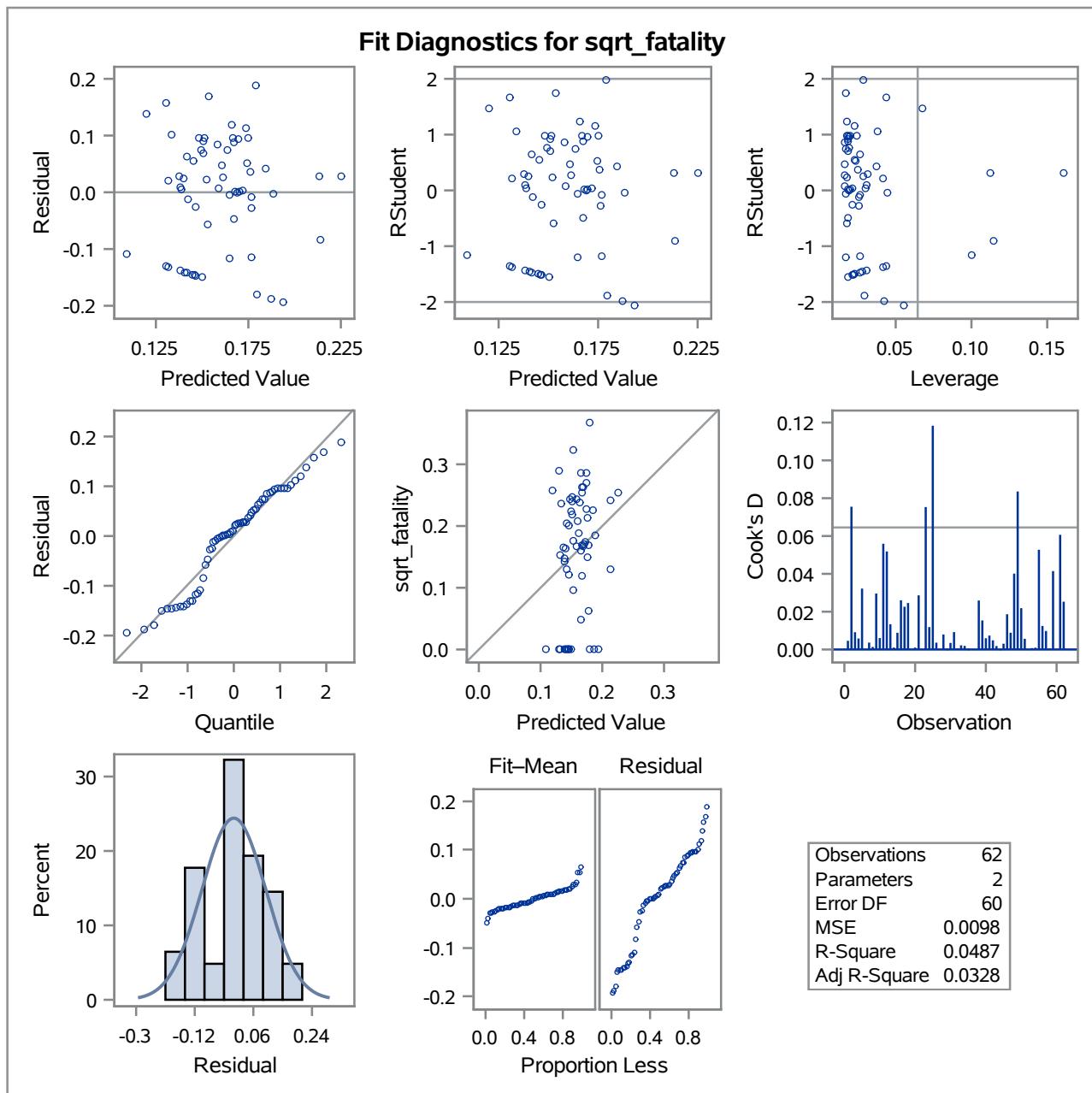
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.03004	0.03004	3.07	0.0848
Error	60	0.58680	0.00978		
Corrected Total	61	0.61684			

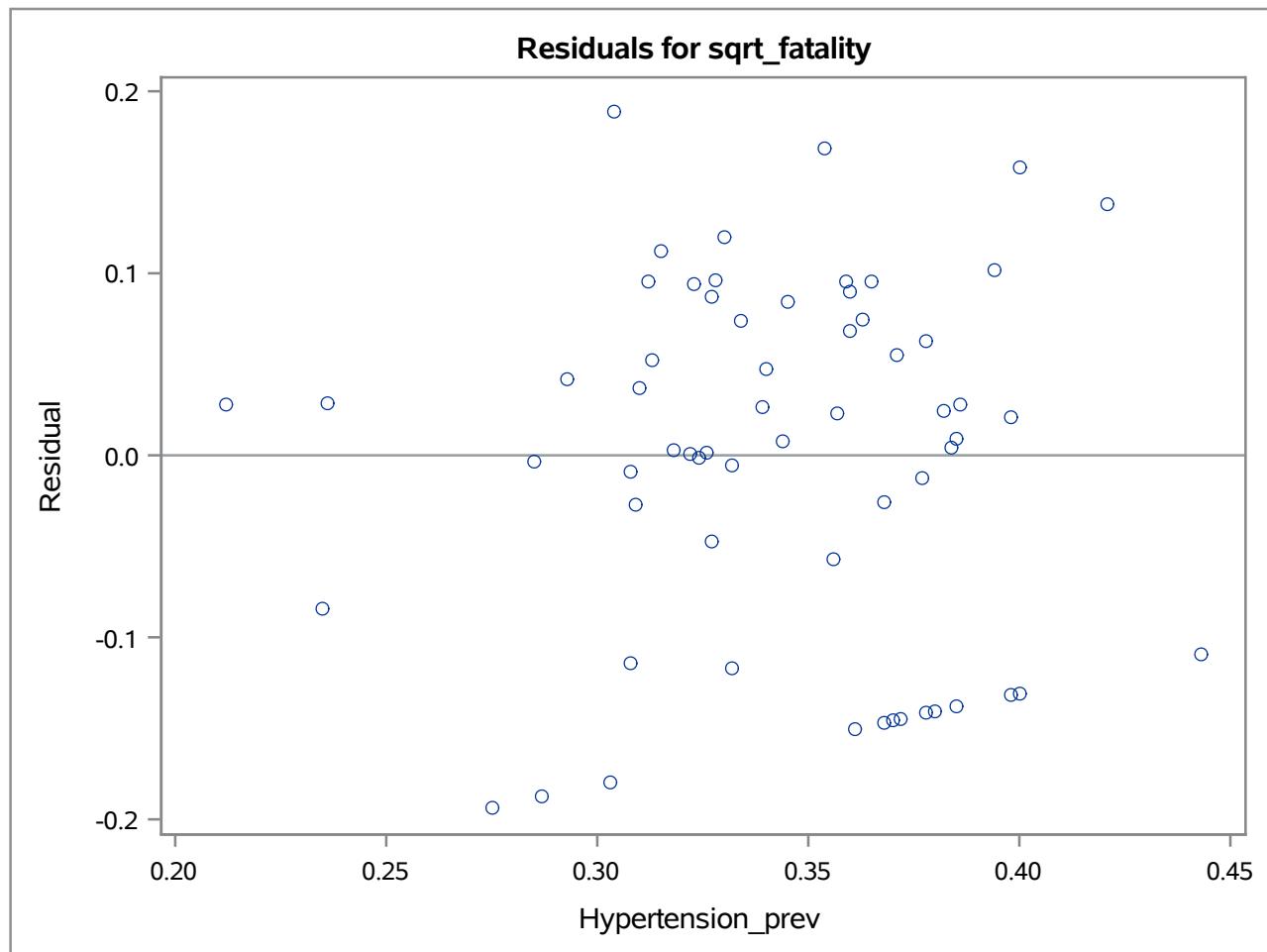
Root MSE	0.09889	R-Square	0.0487
Dependent Mean	0.15931	Adj R-Sq	0.0328
Coeff Var	62.07630		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.33192	0.09929	3.34	0.0014
Hypertension_prev	1	-0.50318	0.28710	-1.75	0.0848

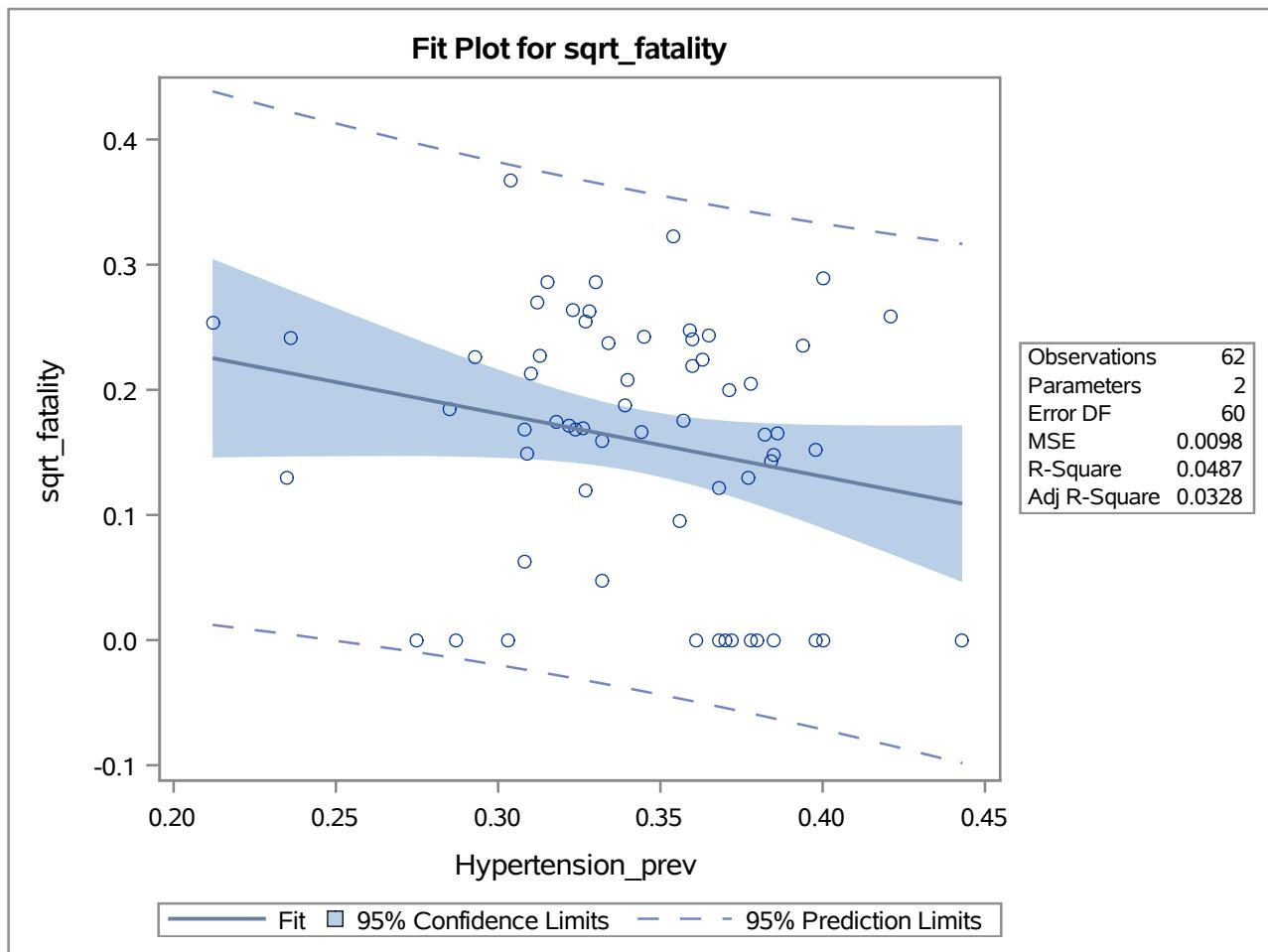
The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL7
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality

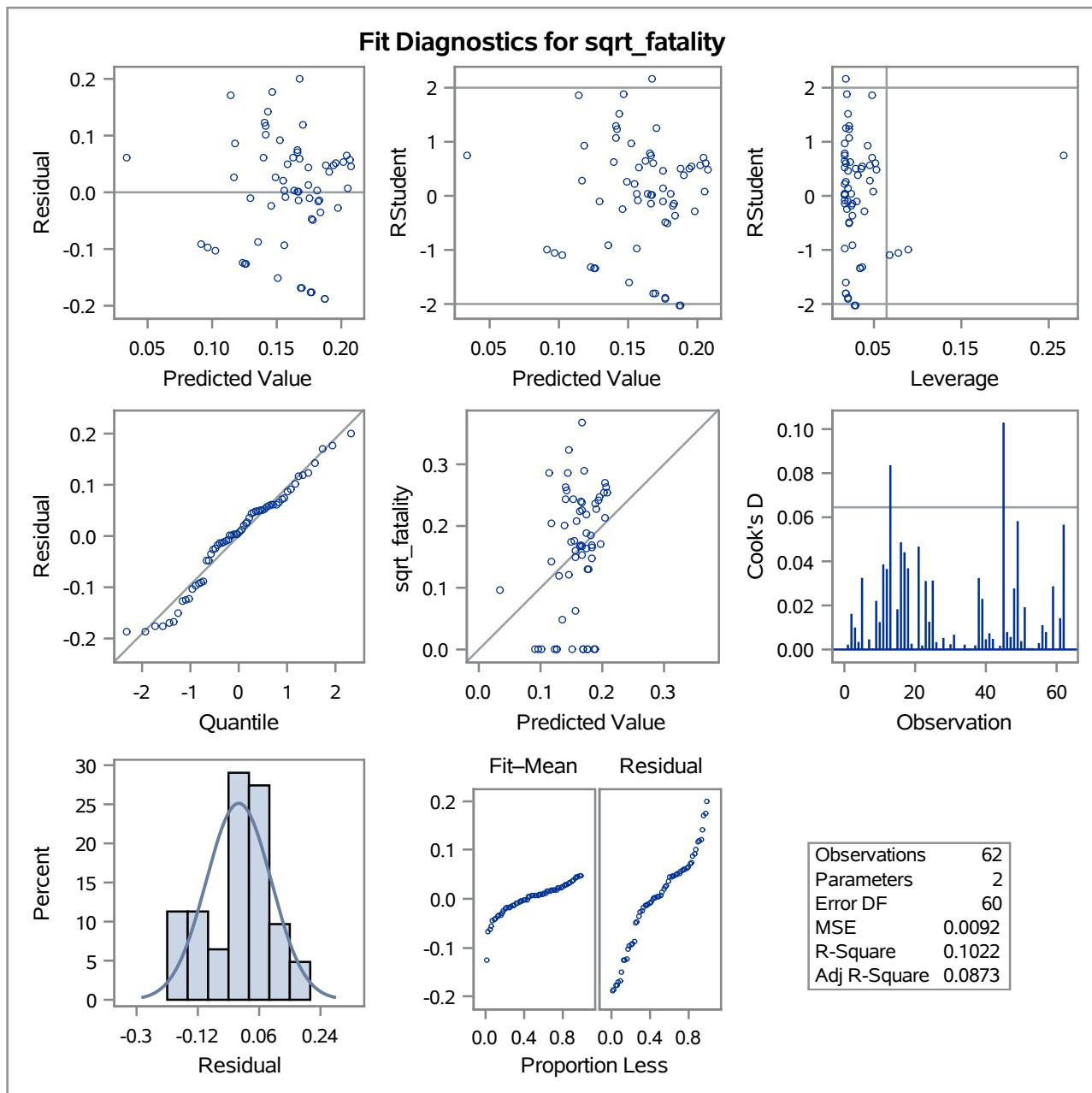
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.06306	0.06306	6.83	0.0113
Error	60	0.55379	0.00923		
Corrected Total	61	0.61684			

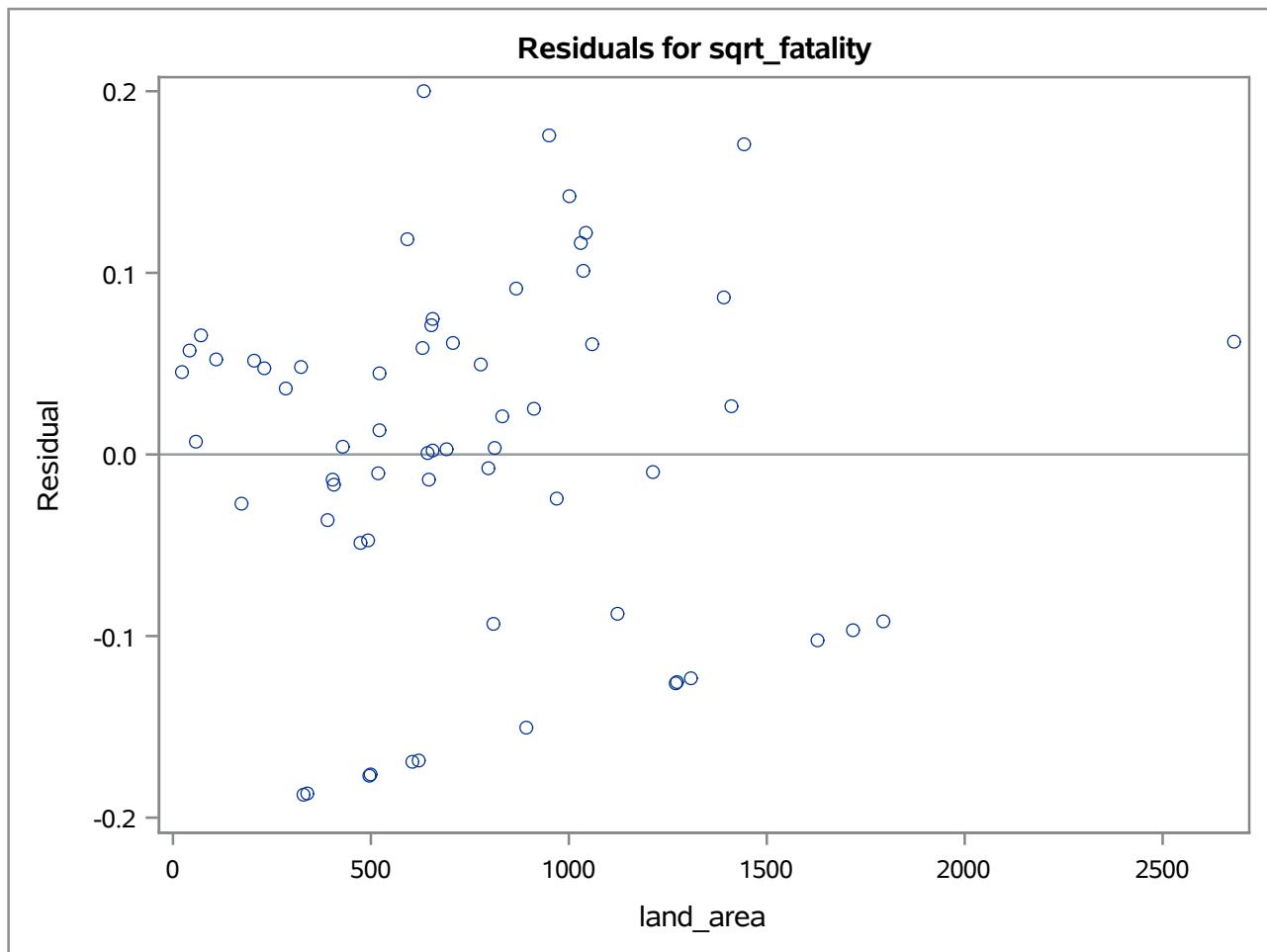
Root MSE	0.09607	R-Square	0.1022
Dependent Mean	0.15931	Adj R-Sq	0.0873
Coeff Var	60.30473		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.20910	0.02262	9.24	<.0001
land_area	1	-0.00006551	0.00002506	-2.61	0.0113

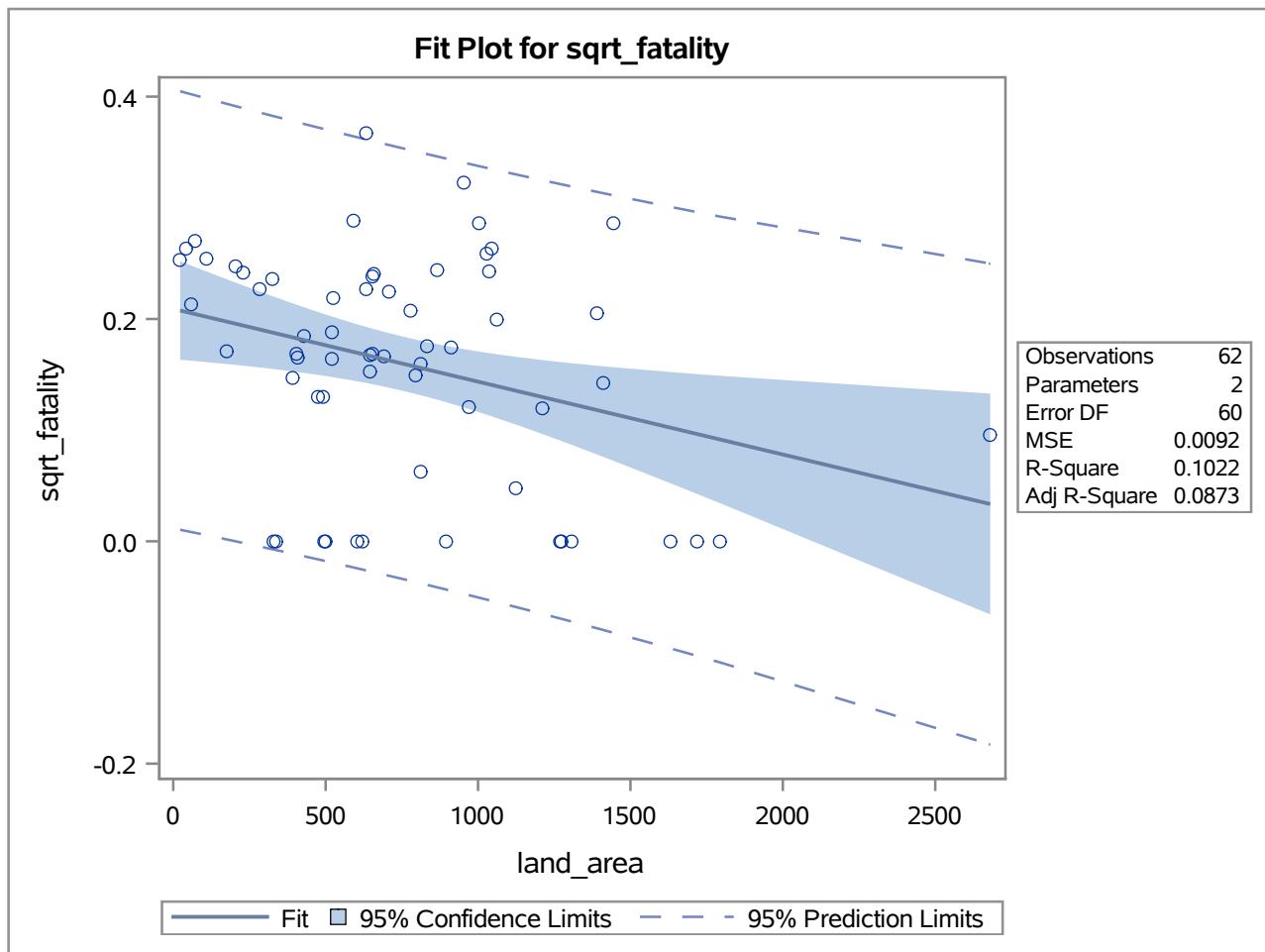
The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL8
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality

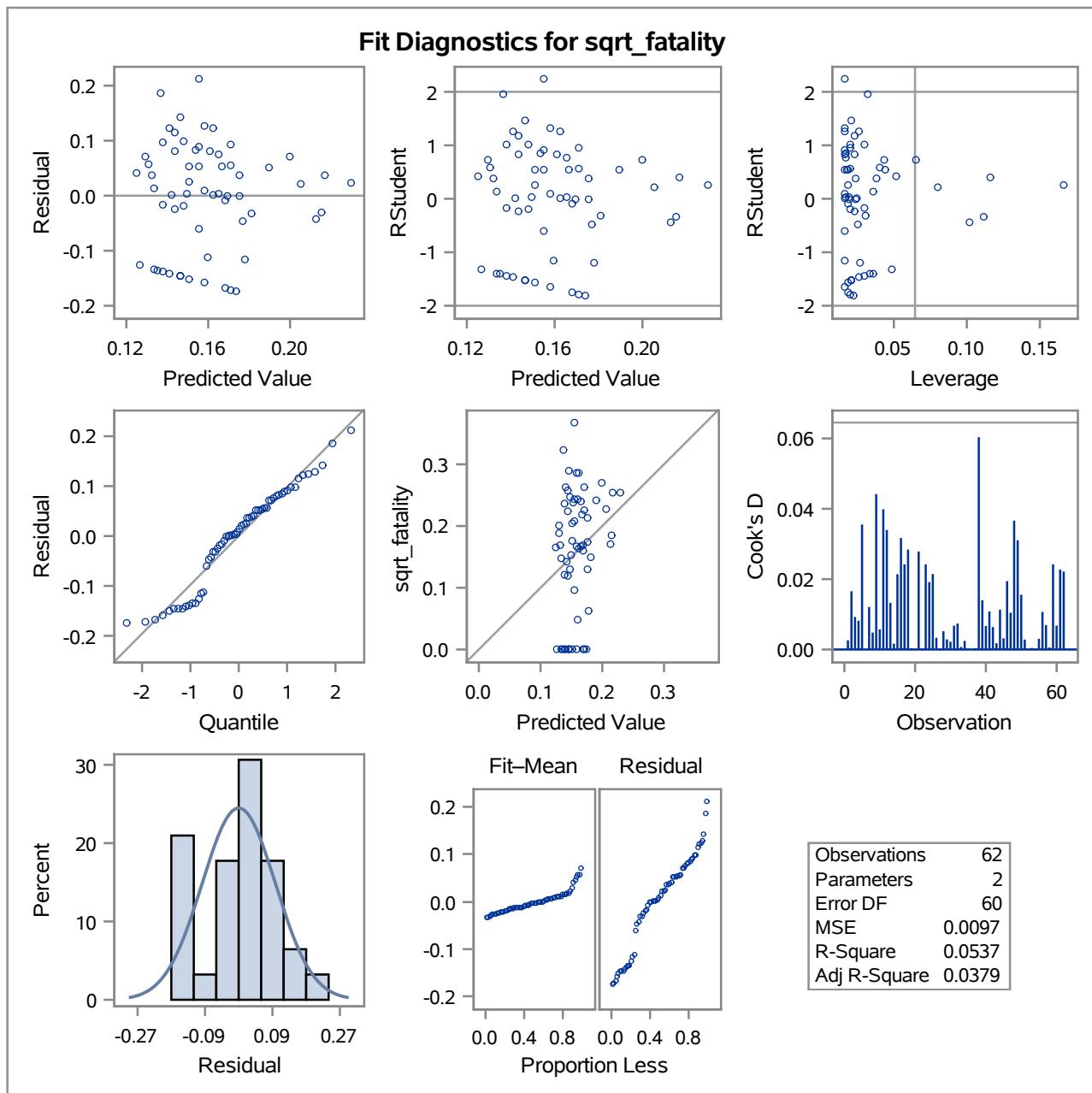
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.03312	0.03312	3.40	0.0700
Error	60	0.58372	0.00973		
Corrected Total	61	0.61684			

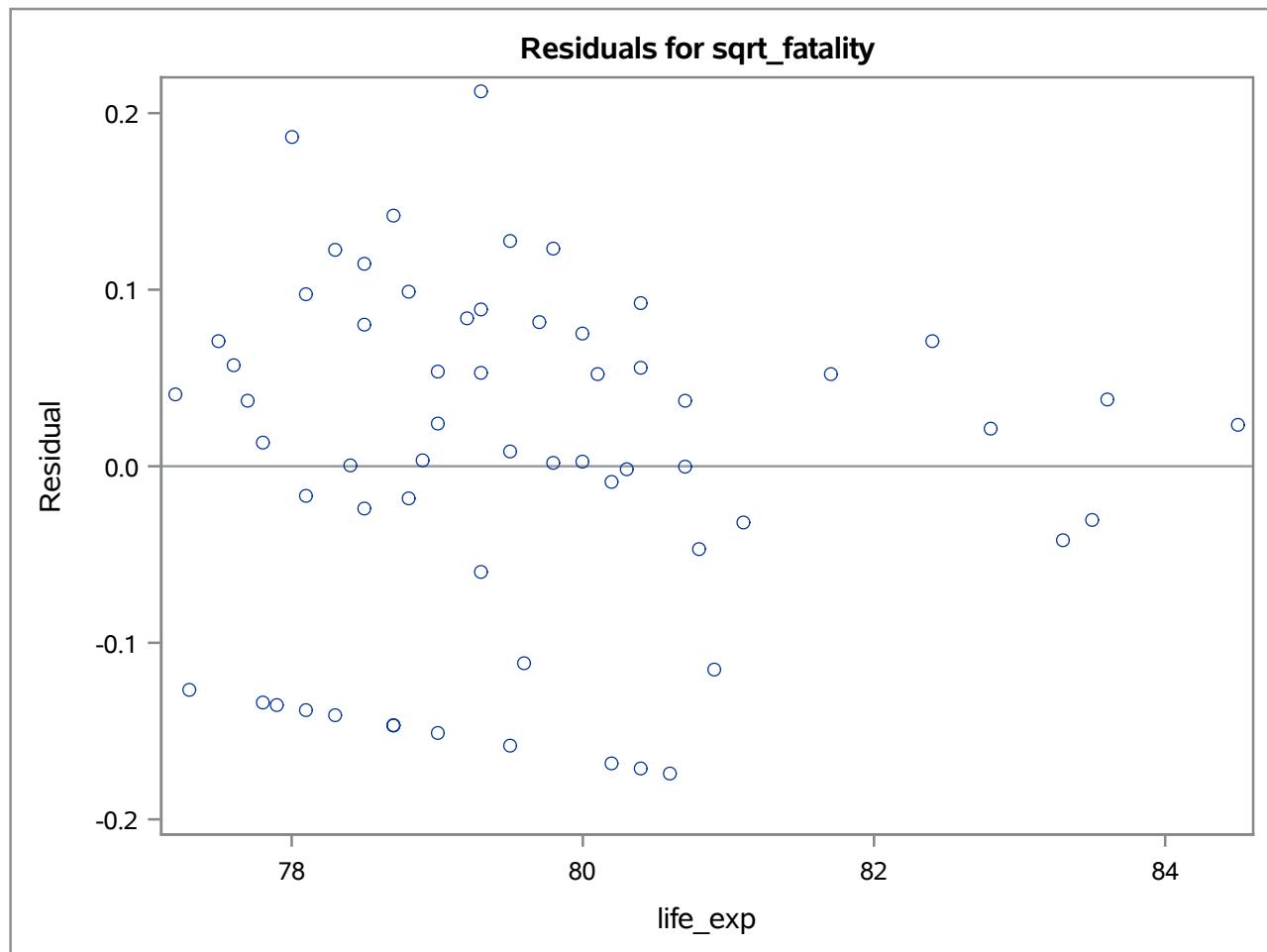
Root MSE	0.09863	R-Square	0.0537
Dependent Mean	0.15931	Adj R-Sq	0.0379
Coeff Var	61.91333		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.98278	0.61913	-1.59	0.1177
life_exp	1	0.01435	0.00778	1.85	0.0700

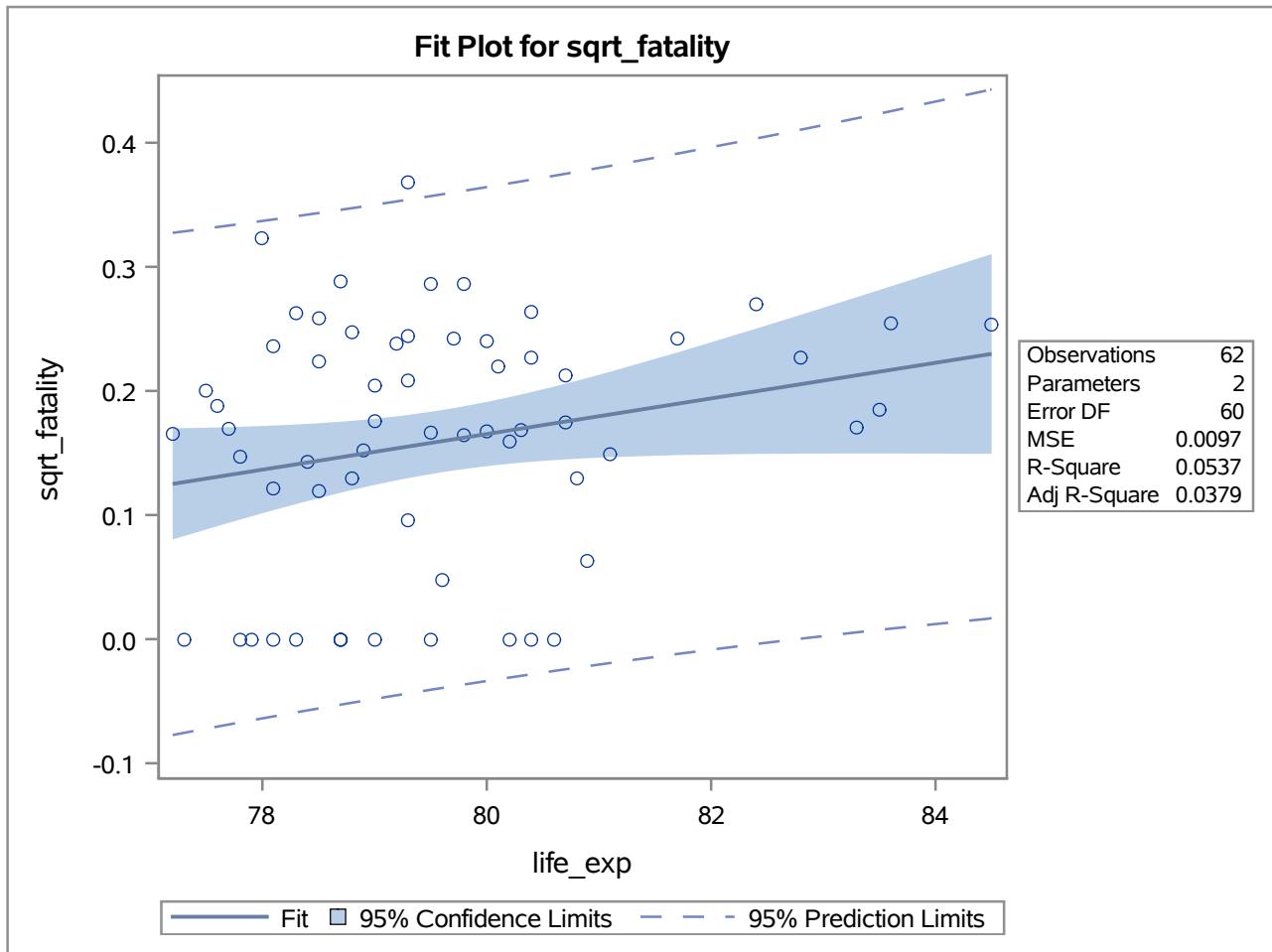
The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL9
Dependent Variable: sqrt_fatality



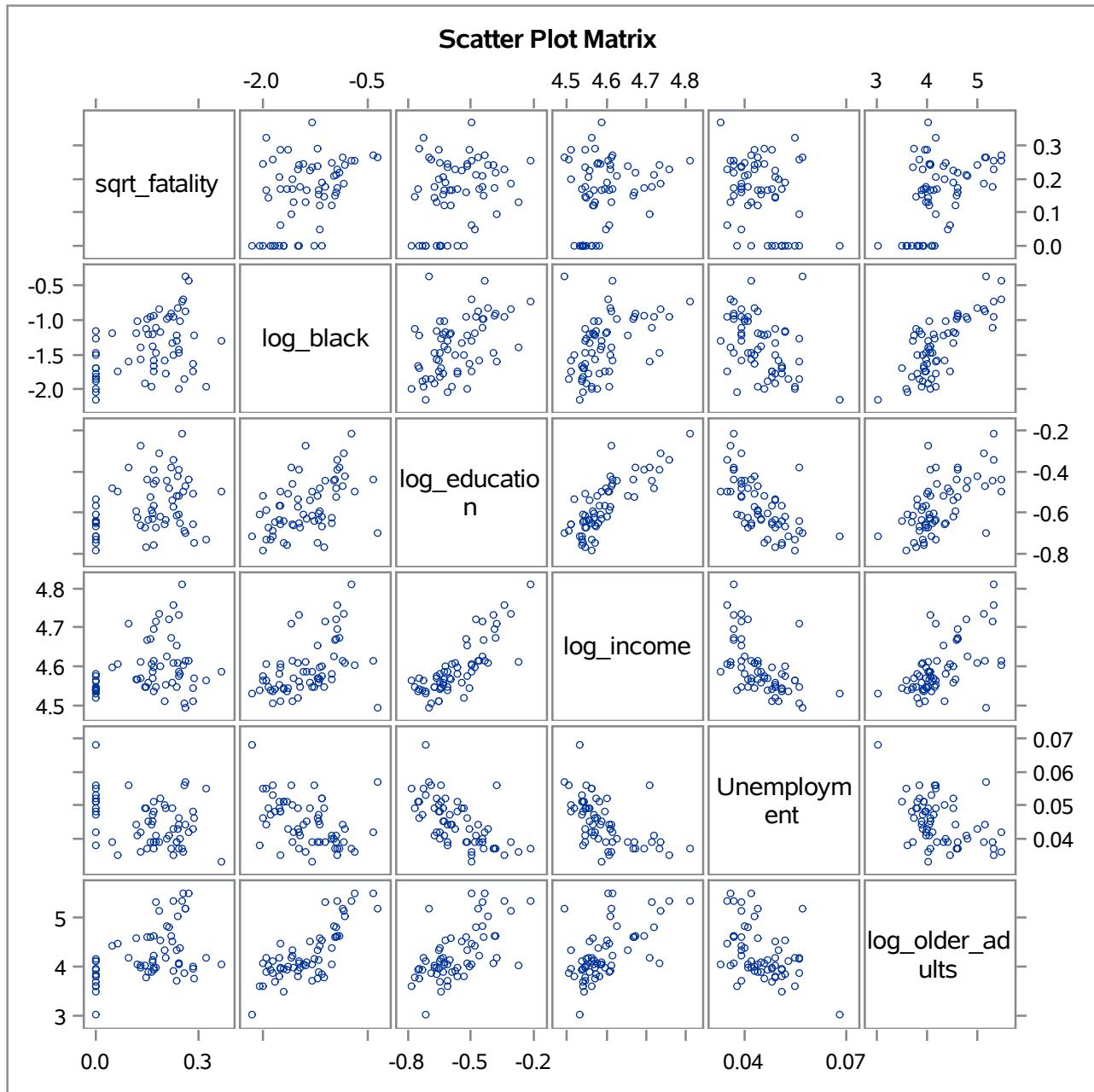
The CORR Procedure

6 Variables:	sqrt_fatality	log_black	log_education	log_income	Unemployment	log_older_adults
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
sqrt_fatality	62	0.15931	0.10056	9.87725	0	0.36761
log_black	62	-1.37696	0.41681	-85.37151	-2.15490	-0.36653
log_education	62	-0.56737	0.13047	-35.17708	-0.78516	-0.21396
log_income	62	4.59427	0.06759	284.84451	4.49361	4.81062
Unemployment	62	0.04490	0.00696	2.78400	0.03300	0.06800
log_older_adults	62	4.25480	0.52911	263.79750	3.02776	5.47845

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0						
	sqrt_fatality	log_black	log_education	log_income	Unemployment	log_older_adults
sqrt_fatality	1.00000 0.0010	0.40760 0.0010	0.29178 0.0214	0.25011 0.0499	-0.33824 0.0072	0.44689 0.0003
log_black	0.40760 0.0010	1.00000	0.47999 <.0001	0.46046 0.0002	-0.43482 0.0004	0.77993 <.0001
log_education	0.29178 0.0214	0.47999 <.0001	1.00000	0.80911 <.0001	-0.63680 <.0001	0.61426 <.0001
log_income	0.25011 0.0499	0.46046 0.0002	0.80911 <.0001	1.00000	-0.55273 <.0001	0.58770 <.0001
Unemployment	-0.33824 0.0072	-0.43482 0.0004	-0.63680 <.0001	-0.55273 <.0001	1.00000	-0.45229 0.0002
log_older_adults	0.44689 0.0003	0.77993 <.0001	0.61426 <.0001	0.58770 <.0001	-0.45229 0.0002	1.00000

The CORR Procedure



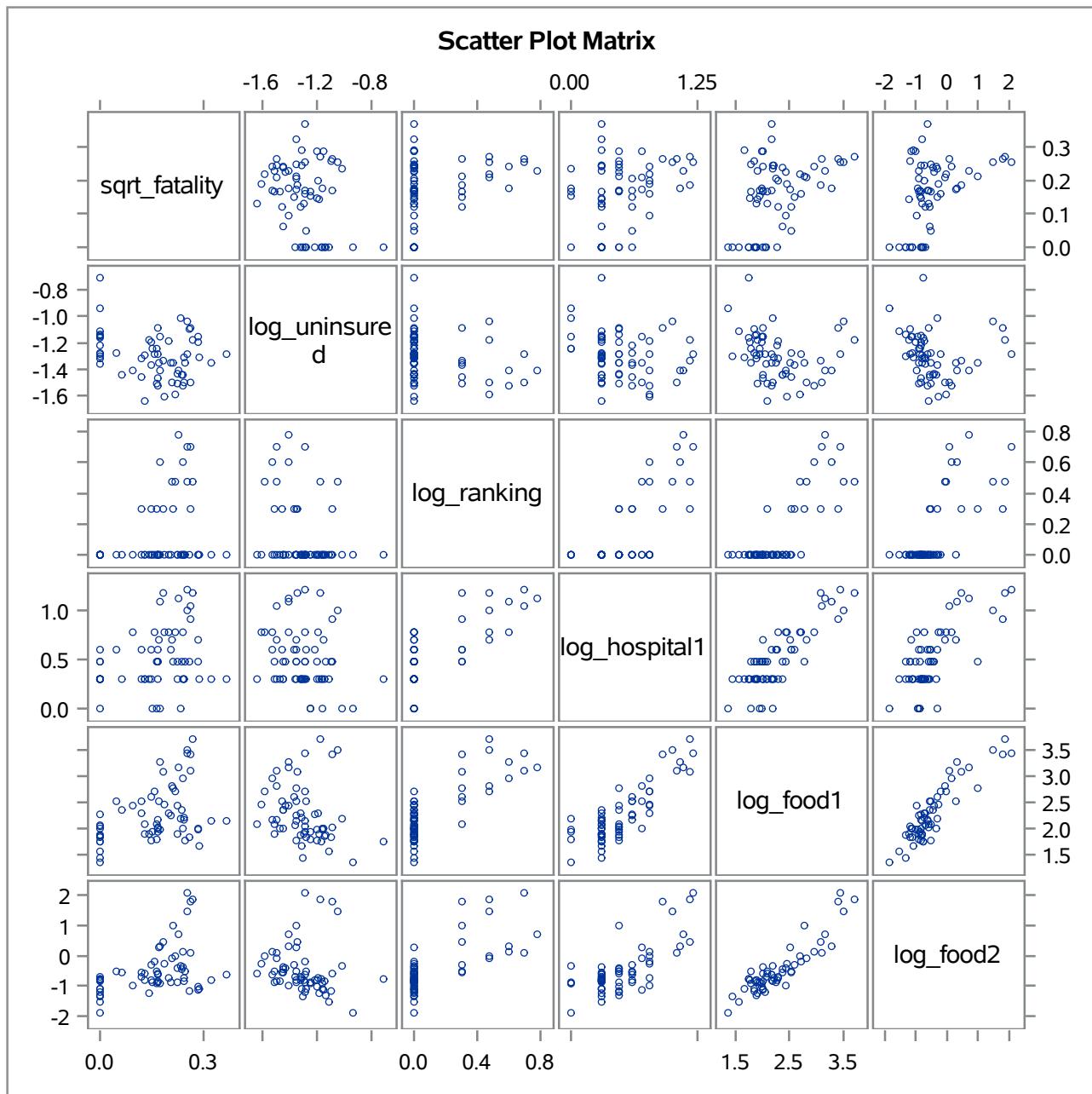
The CORR Procedure

6 Variables:	sqrt_fatality	log_uninsured	log_ranking	log_hospital1	log_food1	log_food2
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
sqrt_fatality	62	0.15931	0.10056	9.87725	0	0.36761
log_uninsured	62	-1.29845	0.17166	-80.50370	-1.63827	-0.70774
log_ranking	62	0.11443	0.21991	7.09488	0	0.77815
log_hospital1	62	0.50394	0.30404	31.24411	0	1.20412
log_food1	62	2.27758	0.52782	141.21004	1.36173	3.70825
log_food2	62	-0.48171	0.79602	-29.86624	-1.87322	2.07797

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0						
	sqrt_fatality	log_uninsured	log_ranking	log_hospital1	log_food1	log_food2
sqrt_fatality	1.00000	-0.26009 0.0412	0.32698 0.0095	0.32163 0.0108	0.42511 0.0006	0.44049 0.0003
log_uninsured	-0.26009 0.0412	1.00000	-0.24166 0.0585	-0.22327 0.0811	-0.23920 0.0611	-0.11725 0.3641
log_ranking	0.32698 0.0095	-0.24166 0.0585	1.00000	0.73504 <.0001	0.79885 <.0001	0.73555 <.0001
log_hospital1	0.32163 0.0108	-0.22327 0.0811	0.73504 <.0001	1.00000	0.84553 <.0001	0.72477 <.0001
log_food1	0.42511 0.0006	-0.23920 0.0611	0.79885 <.0001	0.84553 <.0001	1.00000	0.90196 <.0001
log_food2	0.44049 0.0003	-0.11725 0.3641	0.73555 <.0001	0.72477 <.0001	0.90196 <.0001	1.00000

The CORR Procedure



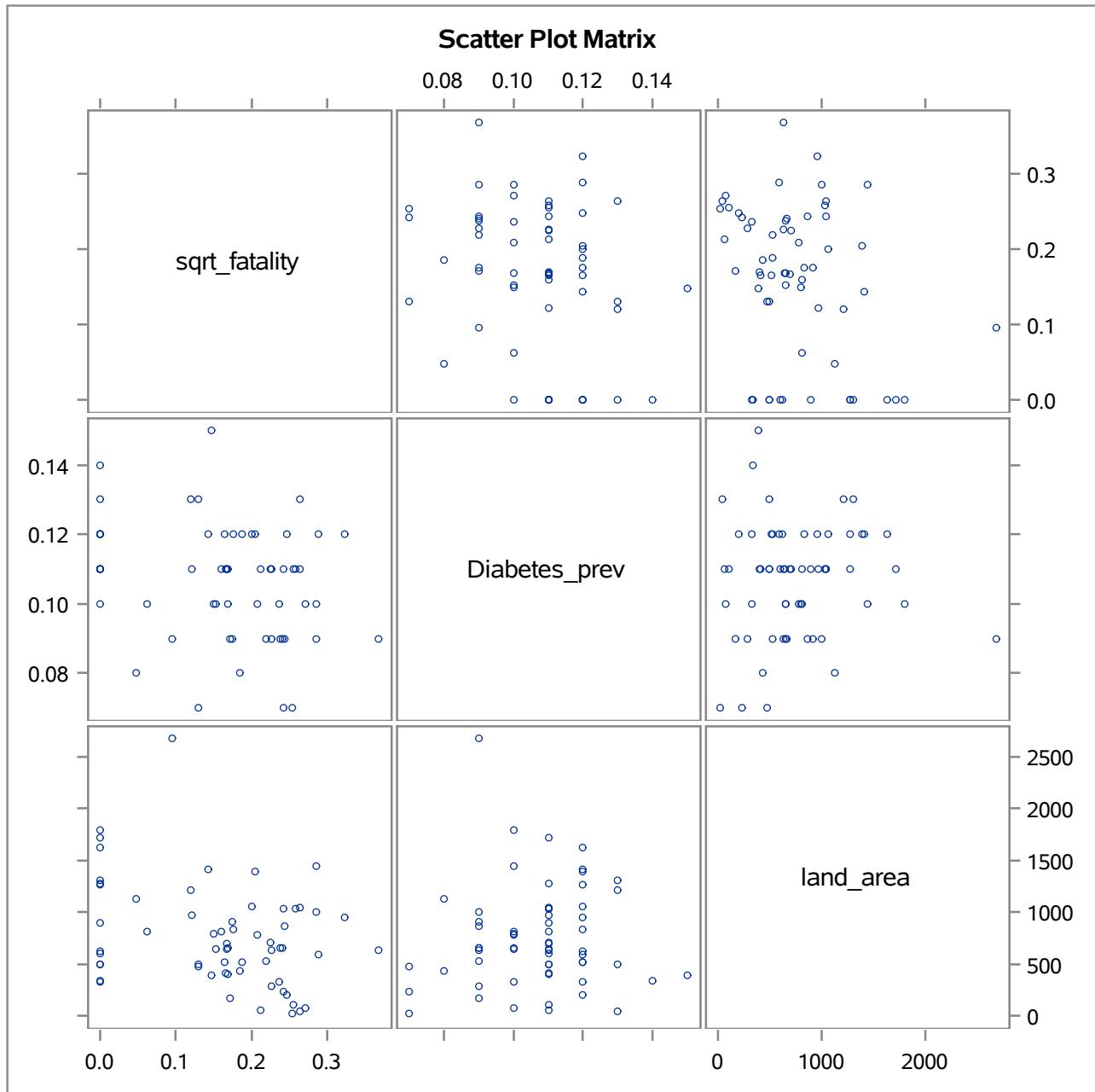
The CORR Procedure

3 Variables:	sqrt_fatality	Diabetes_prev	land_area
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
sqrt_fatality	62	0.15931	0.10056	9.87725	0	0.36761
Diabetes_prev	62	0.10694	0.01636	6.63000	0.07000	0.15000
land_area	62	760.10371	490.80412	47126	22.83000	2680

Pearson Correlation Coefficients, N = 62 Prob > r under H0: Rho=0				
	sqrt_fatality	Diabetes_prev	land_area	
sqrt_fatality	1.00000	-0.26691 0.0360	-0.31973 0.0113	
Diabetes_prev	-0.26691 0.0360	1.00000	0.05715 0.6590	
land_area	-0.31973 0.0113	0.05715 0.6590	1.00000	

The CORR Procedure



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	0.19191	0.01599	1.84	0.0666
Error	49	0.42494	0.00867		
Corrected Total	61	0.61684			

Root MSE	0.09312	R-Square	0.3111
Dependent Mean	0.15931	Adj R-Sq	0.1424
Coeff Var	58.45477		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	1.26626	1.65490	0.77	0.4478	0
log_black	1	-0.00452	0.05451	-0.08	0.9342	3.63158
log_education	1	-0.31323	0.26191	-1.20	0.2375	8.21284
log_income	1	-0.26044	0.33205	-0.78	0.4366	3.54305
Unemployment	1	-3.19068	3.32216	-0.96	0.3416	3.75615
log_older_adults	1	0.02640	0.11360	0.23	0.8172	25.41462
log_uninsured	1	-0.14420	0.10787	-1.34	0.1875	2.41166
log_ranking	1	-0.01119	0.09725	-0.12	0.9089	3.21746
log_hospital1	1	0.01909	0.09247	0.21	0.8373	5.56032
log_food1	1	-0.00771	0.13988	-0.06	0.9563	38.34049
log_food2	1	0.05693	0.08507	0.67	0.5065	32.25175
Diabetes_prev	1	-1.99218	1.23429	-1.61	0.1129	2.86661
land_area	1	-0.00000127	0.00006411	-0.02	0.9842	6.96466

The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

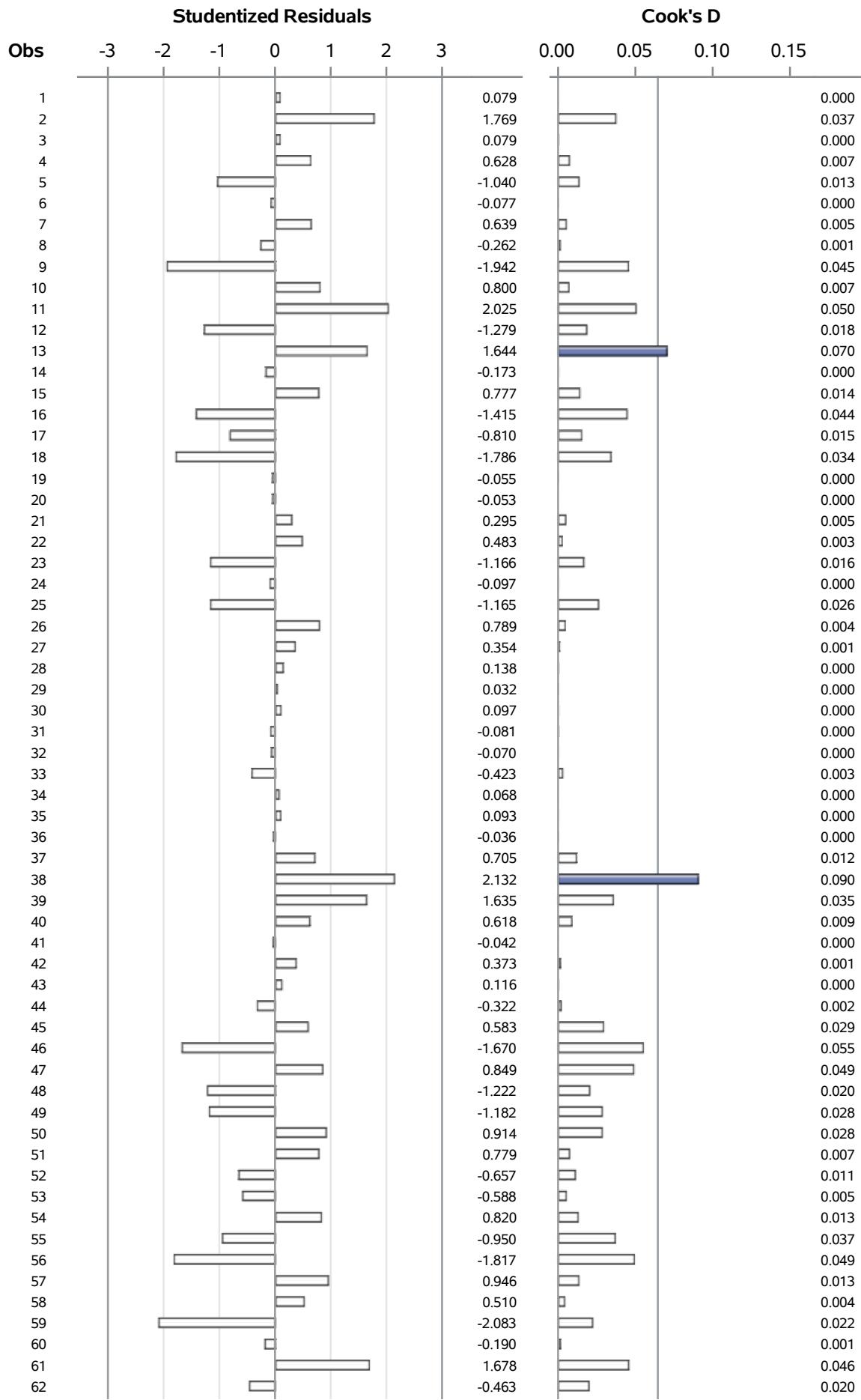
Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	0.2192	0.2125	0.0381	0.006702	0.0850	0.079	0.000
2	0.2582	0.1048	0.0339	0.1534	0.0867	1.769	0.037
3	0.2633	0.2580	0.0651	0.005267	0.0666	0.079	0.000
4	0.2242	0.1716	0.0407	0.0526	0.0838	0.628	0.007
5	0.0000	0.0898	0.0347	-0.0898	0.0864	-1.040	0.013
6	0.1667	0.1736	0.0230	-0.006910	0.0902	-0.077	0.000
7	0.2000	0.1449	0.0350	0.0551	0.0863	0.639	0.005
8	0.1655	0.1878	0.0379	-0.0223	0.0851	-0.262	0.001
9	0.0000	0.1682	0.0342	-0.1682	0.0866	-1.942	0.045
10	0.2425	0.1727	0.0324	0.0699	0.0873	0.800	0.007
11	0.3676	0.1924	0.0344	0.1752	0.0865	2.025	0.050
12	0.0000	0.1112	0.0333	-0.1112	0.0870	-1.279	0.018
13	0.2857	0.1532	0.0467	0.1325	0.0806	1.644	0.070
14	0.1494	0.1647	0.0304	-0.0152	0.0880	-0.173	0.000
15	0.2631	0.1996	0.0446	0.0635	0.0817	0.777	0.014
16	0.0000	0.1162	0.0440	-0.1162	0.0821	-1.415	0.044
17	0.0000	0.0662	0.0446	-0.0662	0.0818	-0.810	0.015
18	0.0000	0.1558	0.0325	-0.1558	0.0873	-1.786	0.034
19	0.1296	0.1345	0.0280	-0.004906	0.0888	-0.055	0.000
20	0.1525	0.1569	0.0415	-0.004408	0.0834	-0.053	0.000
21	0.0000	-0.0209	0.0604	0.0209	0.0709	0.295	0.005
22	0.1429	0.1007	0.0327	0.0422	0.0872	0.483	0.003
23	0.0000	0.1009	0.0343	-0.1009	0.0866	-1.166	0.016
24	0.2703	0.2782	0.0443	-0.007927	0.0819	-0.097	0.000
25	0.0000	0.0972	0.0415	-0.0972	0.0834	-1.165	0.026
26	0.2265	0.1561	0.0270	0.0703	0.0891	0.789	0.004
27	0.1682	0.1365	0.0254	0.0317	0.0896	0.354	0.001
28	0.2406	0.2293	0.0449	0.0112	0.0816	0.138	0.000
29	0.1690	0.1663	0.0393	0.002686	0.0844	0.032	0.000
30	0.2267	0.2189	0.0473	0.007817	0.0802	0.097	0.000
31	0.2533	0.2587	0.0654	-0.005389	0.0663	-0.081	0.000
32	0.1879	0.1935	0.0471	-0.005640	0.0803	-0.070	0.000
33	0.1197	0.1556	0.0382	-0.0359	0.0849	-0.423	0.003

The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	0.2079	0.2020	0.0311	0.005926	0.0878	0.068	0.000
35	0.1678	0.1599	0.0389	0.007887	0.0846	0.093	0.000
36	0.1595	0.1625	0.0467	-0.002939	0.0806	-0.036	0.000
37	0.1474	0.0901	0.0452	0.0574	0.0814	0.705	0.012
38	0.3227	0.1458	0.0422	0.1770	0.0830	2.132	0.090
39	0.2857	0.1451	0.0357	0.1406	0.0860	1.635	0.035
40	0.2417	0.1911	0.0444	0.0506	0.0819	0.618	0.009
41	0.2545	0.2579	0.0455	-0.003381	0.0813	-0.042	0.000
42	0.2377	0.2048	0.0301	0.0329	0.0881	0.373	0.001
43	0.2126	0.2035	0.0498	0.009133	0.0787	0.116	0.000
44	0.1708	0.1979	0.0402	-0.0271	0.0840	-0.322	0.002
45	0.0953	0.0580	0.0676	0.0373	0.0640	0.583	0.029
46	0.0627	0.2016	0.0420	-0.1389	0.0831	-1.670	0.055
47	0.2470	0.1893	0.0636	0.0577	0.0680	0.849	0.049
48	0.0000	0.1049	0.0361	-0.1049	0.0858	-1.222	0.020
49	0.0000	0.0980	0.0424	-0.0980	0.0829	-1.182	0.028
50	0.2357	0.1647	0.0514	0.0710	0.0777	0.914	0.028
51	0.2047	0.1373	0.0344	0.0674	0.0866	0.779	0.007
52	0.1748	0.2278	0.0465	-0.0530	0.0807	-0.657	0.011
53	0.1213	0.1713	0.0375	-0.0501	0.0852	-0.588	0.005
54	0.1644	0.0960	0.0412	0.0684	0.0835	0.820	0.013
55	0.1296	0.2012	0.0547	-0.0716	0.0754	-0.950	0.037
56	0.0478	0.2026	0.0375	-0.1549	0.0853	-1.817	0.049
57	0.2437	0.1630	0.0373	0.0807	0.0853	0.946	0.013
58	0.1754	0.1320	0.0379	0.0434	0.0851	0.510	0.004
59	0.0000	0.1879	0.0232	-0.1879	0.0902	-2.083	0.022
60	0.1849	0.1996	0.0517	-0.0147	0.0774	-0.190	0.001
61	0.2887	0.1467	0.0388	0.1420	0.0846	1.678	0.046
62	0.0000	0.0291	0.0687	-0.0291	0.0629	-0.463	0.020

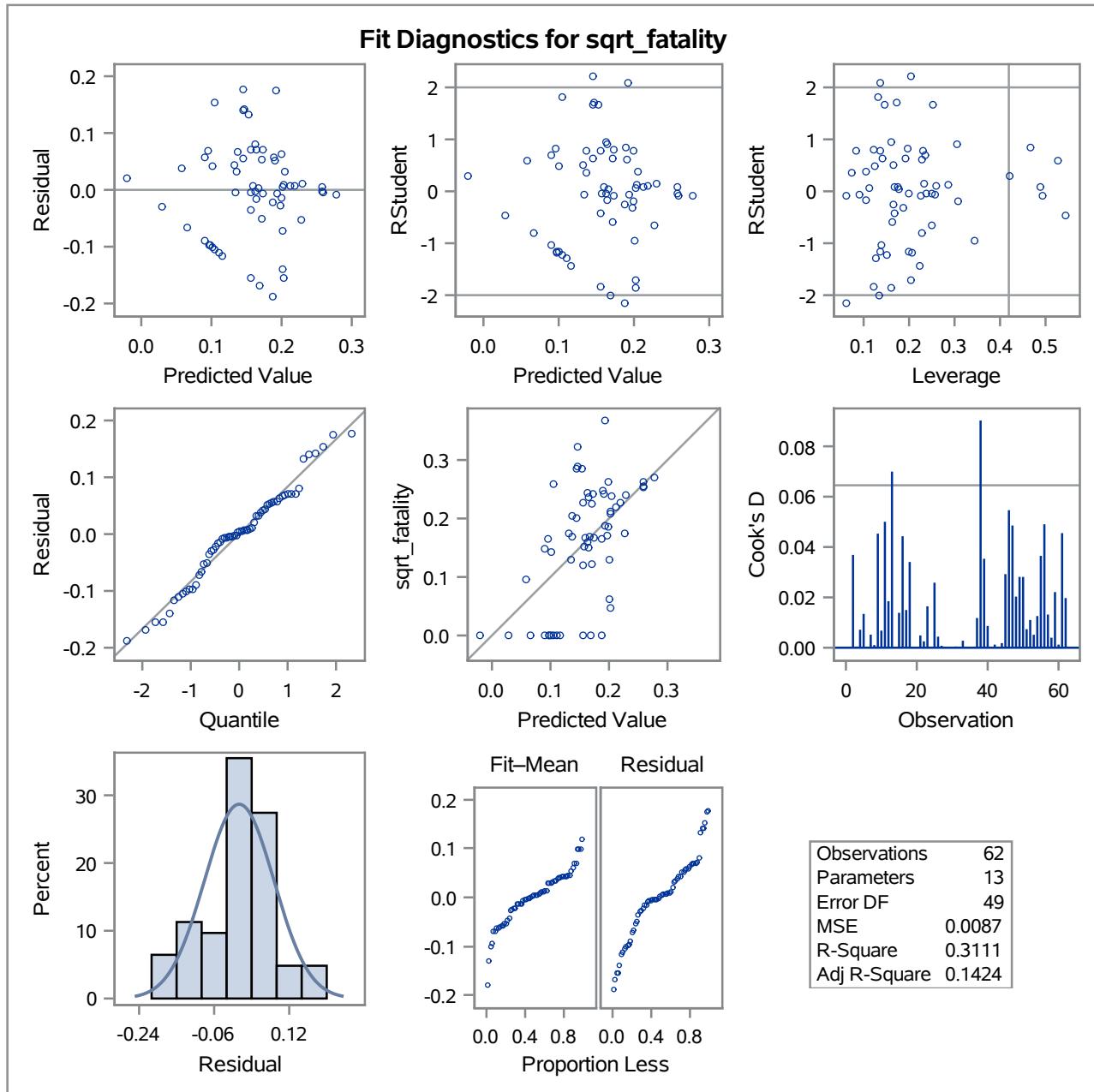
**The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality**

Studentized Residuals and Cook's D for sqrt_fatality

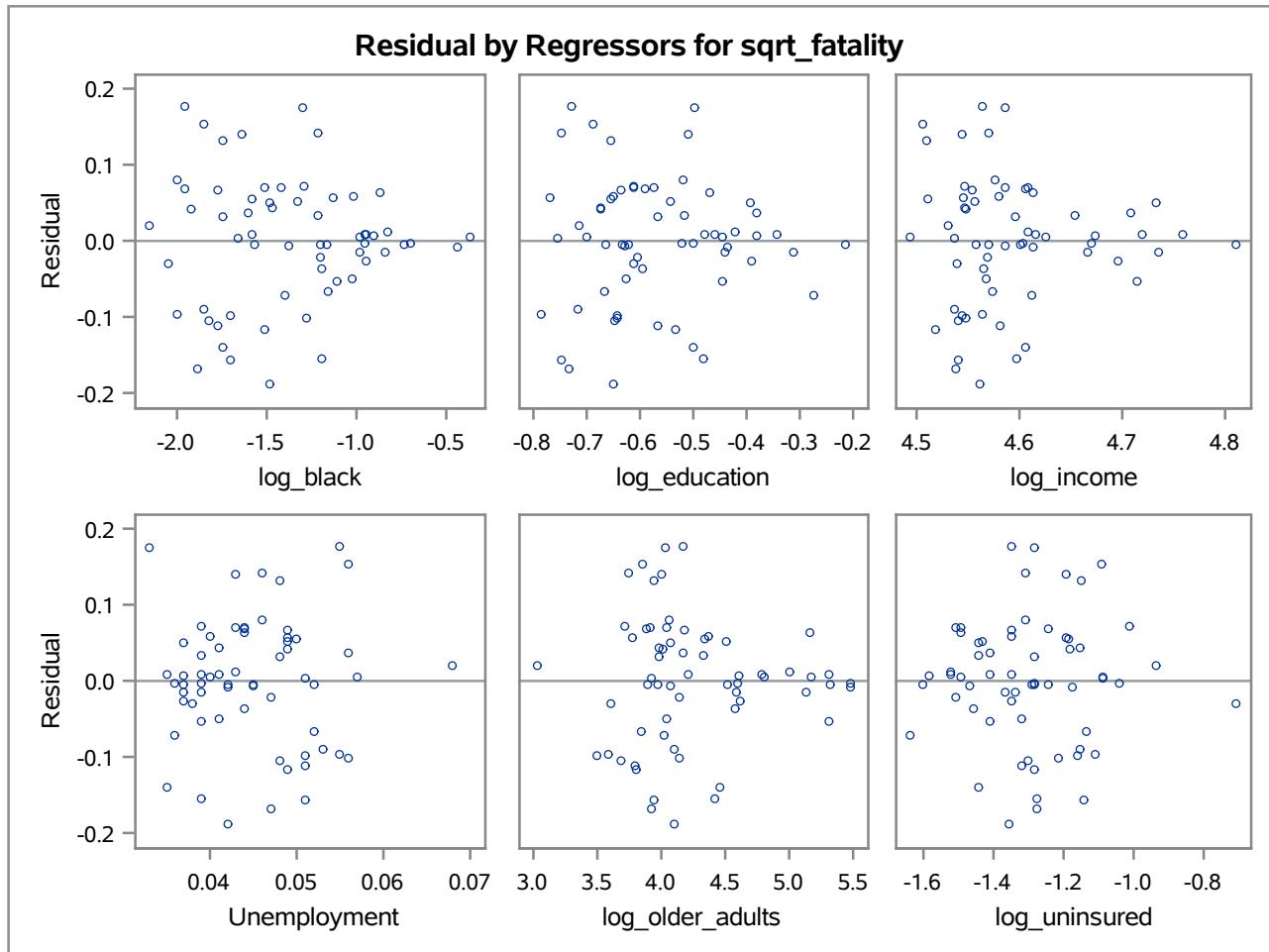


The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

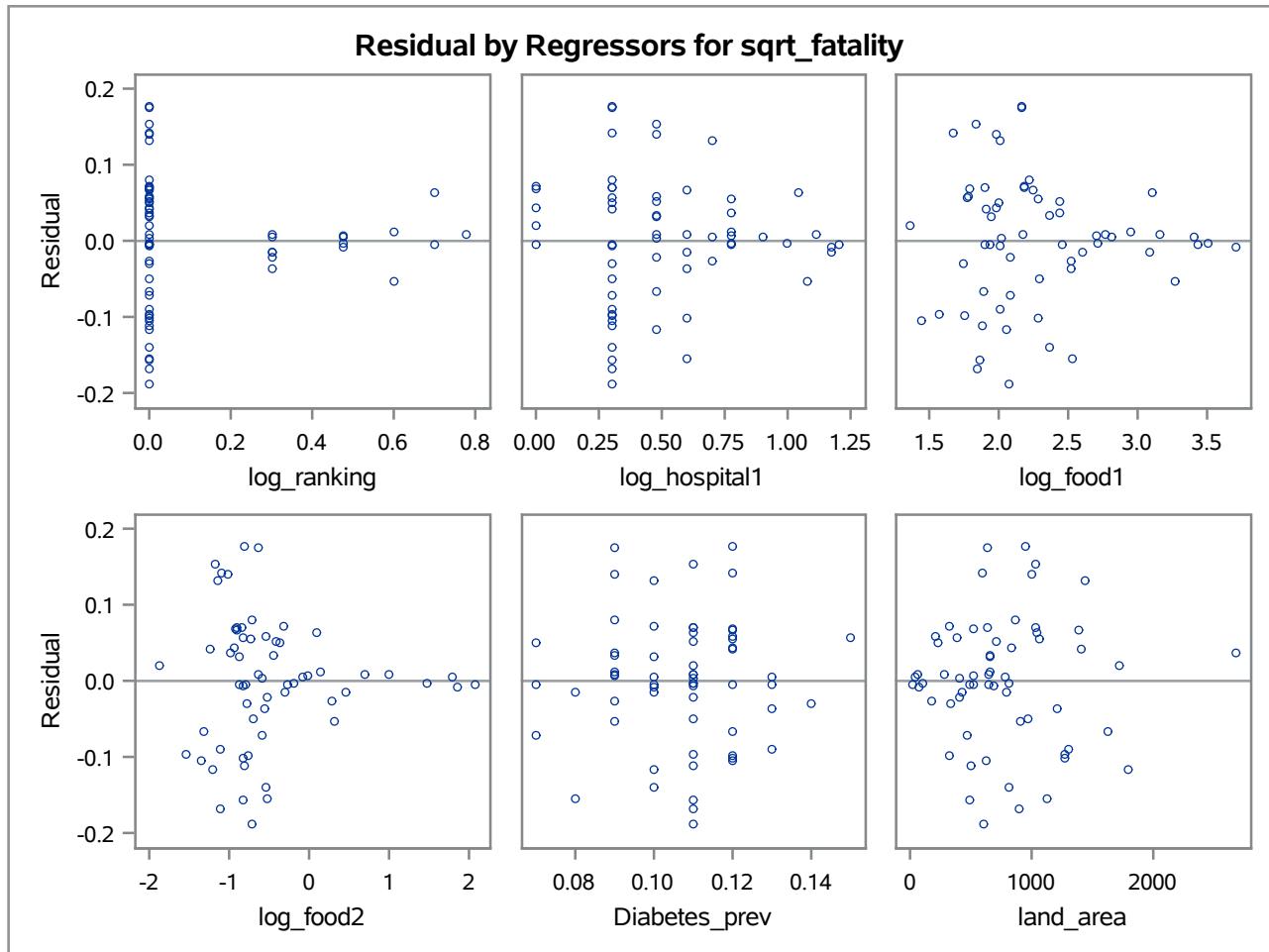
Sum of Residuals	0
Sum of Squared Residuals	0.42494
Predicted Residual SS (PRESS)	0.62720



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1



The SURVEYSELECT Procedure

Selection Method	Simple Random Sampling
Input Data Set	COVID_STD2
Random Number Seed	123
Sampling Rate	0.7
Sample Size	44
Selection Probability	0.709677
Sampling Weight	0
Output Data Set	TRAINTEST2

The GLMSELECT Procedure

Data Set	WORK.TRAINTEST2
Dependent Variable	sqrt_fatality
Selection Method	LAR
Stop Criterion	None
Choose Criterion	Cross Validation
Cross Validation Method	Random
Cross Validation Fold	10
Effect Hierarchy Enforced	None
Random Number Seed	123

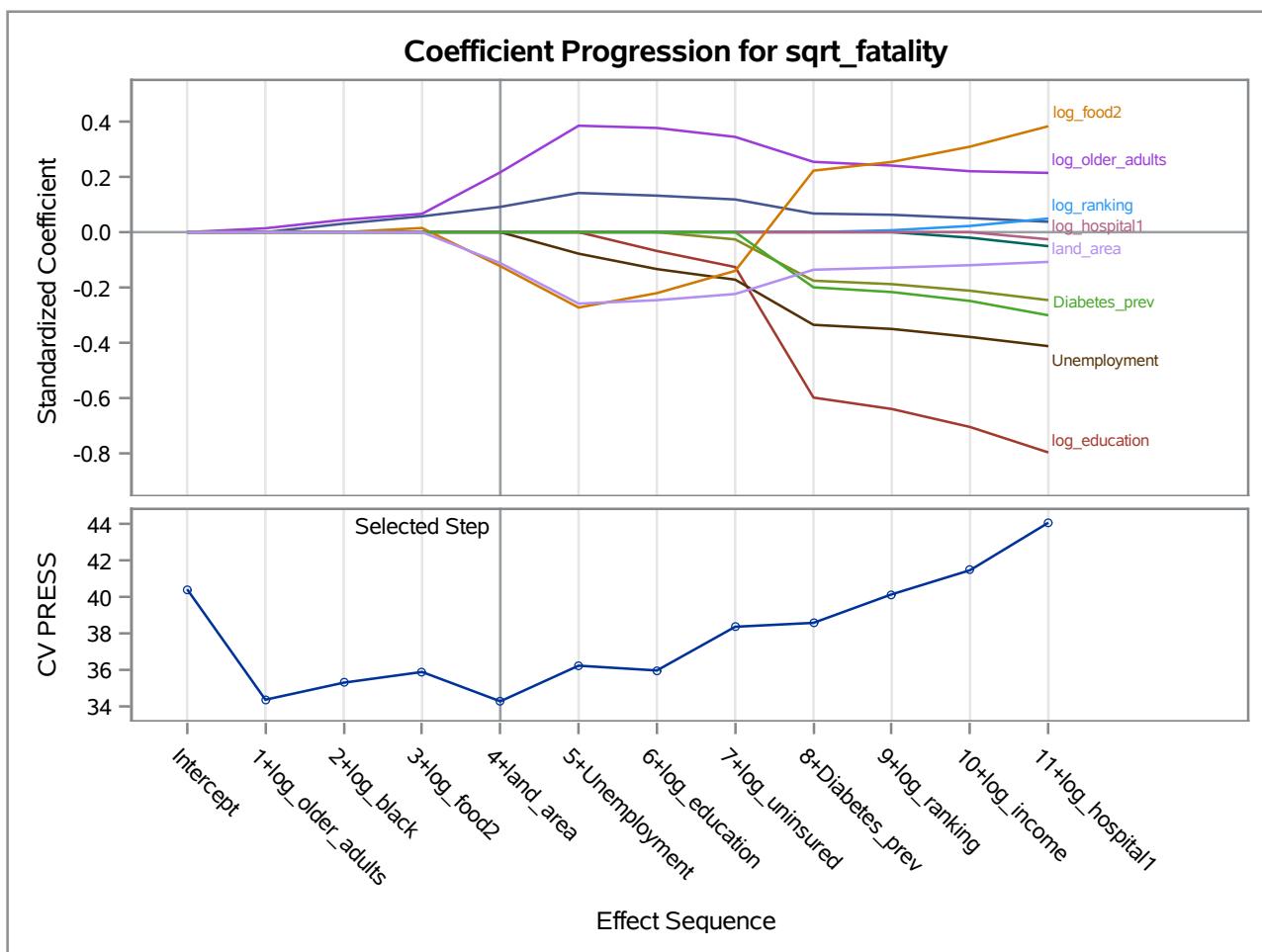
Number of Observations Read	62
Number of Observations Used	62
Number of Observations Used for Training	44
Number of Observations Used for Testing	18

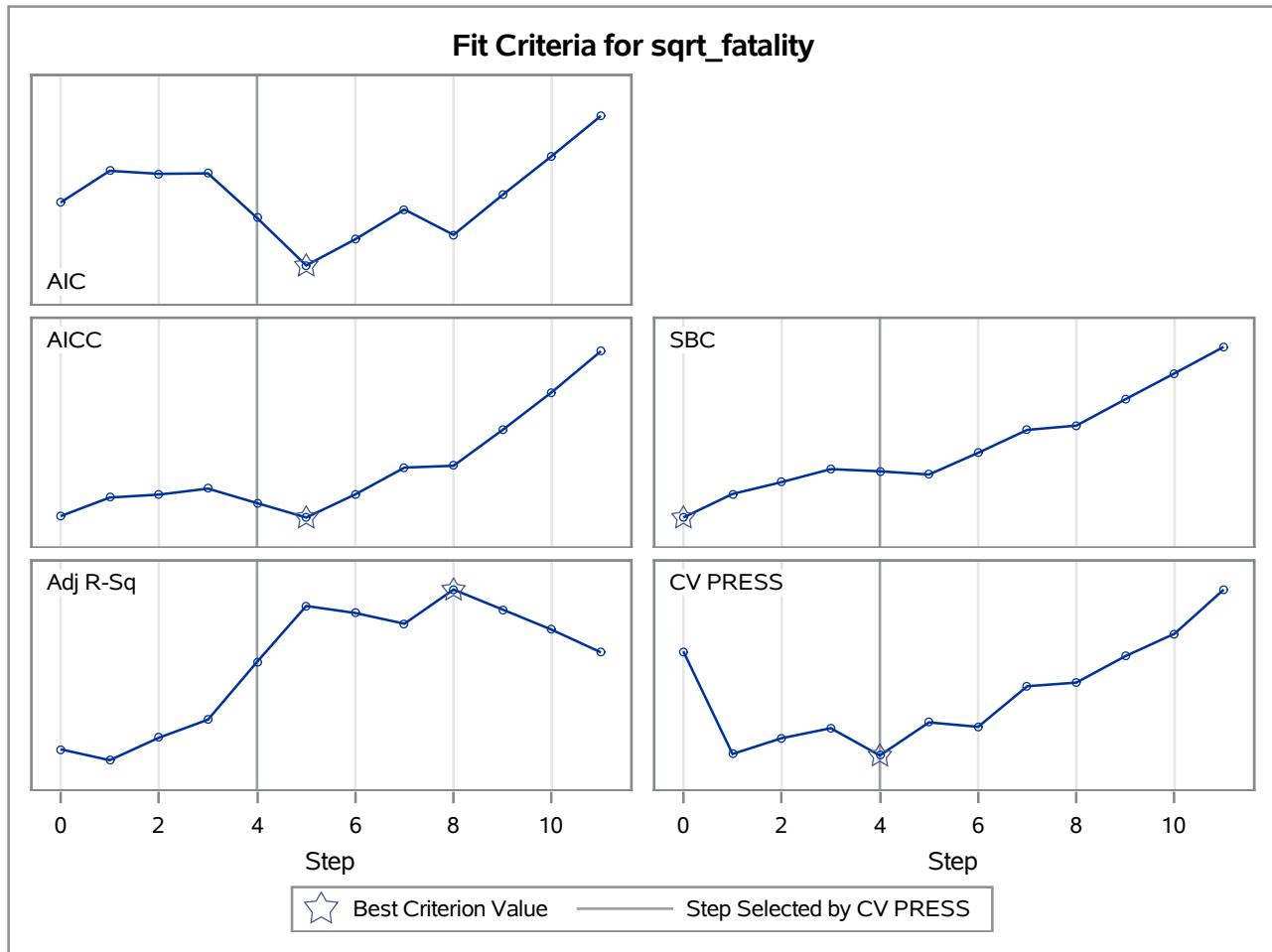
Dimensions	
Number of Effects	12
Number of Parameters	12

The GLMSELECT Procedure

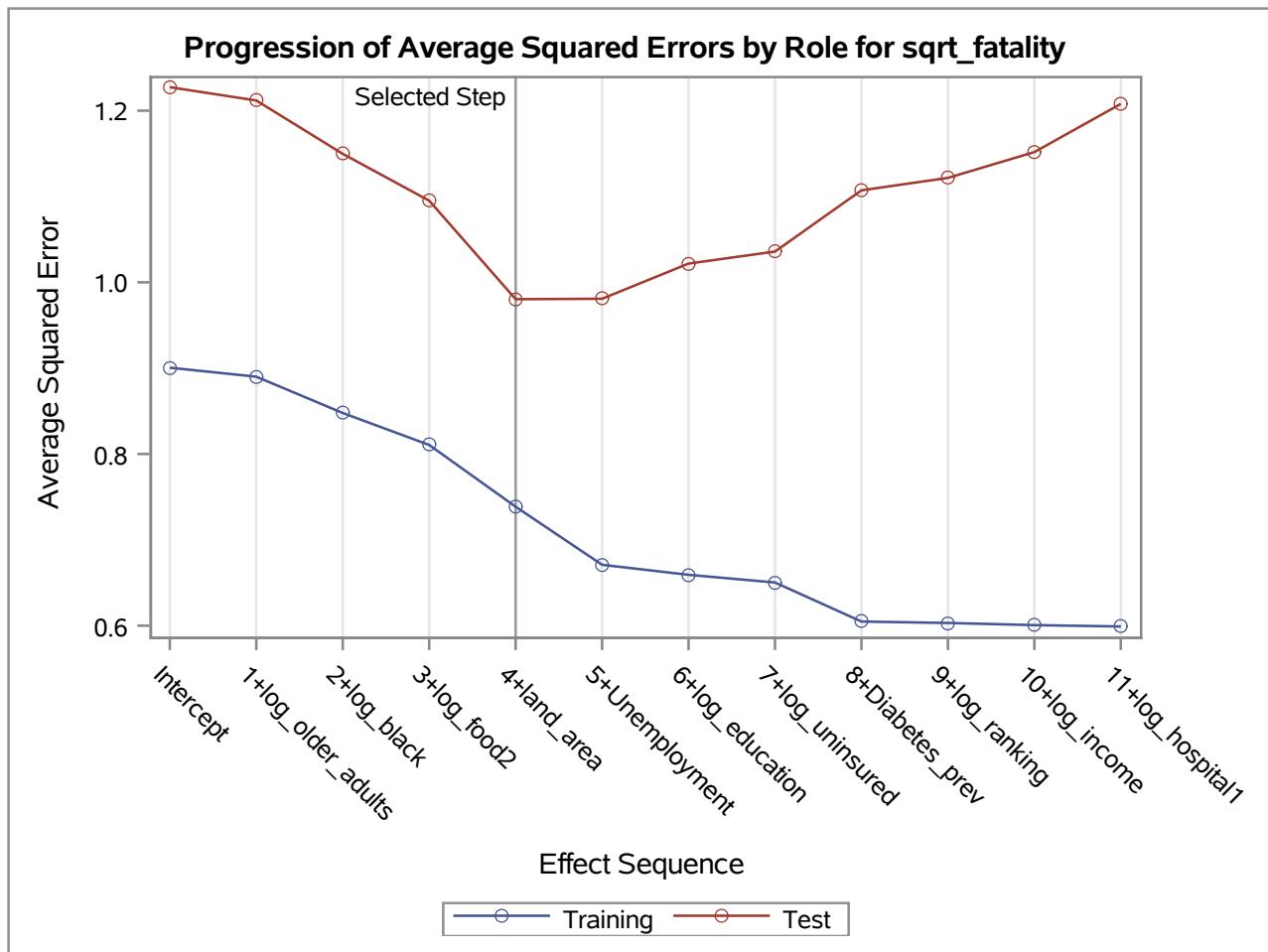
LAR Selection Summary					
Step	Effect Entered	Number Effects In	ASE	Test ASE	CV PRESS
0	Intercept	1	0.9005	1.2273	40.4135
1	log_older_adults	2	0.8901	1.2119	34.3662
2	log_black	3	0.8478	1.1497	35.2977
3	log_food2	4	0.8105	1.0952	35.8857
4	land_area	5	0.7386	0.9804	34.2795*
5	Unemployment	6	0.6709	0.9809	36.2292
6	log_education	7	0.6592	1.0219	35.9662
7	log_uninsured	8	0.6503	1.0358	38.3612
8	Diabetes_prev	9	0.6048	1.1072	38.5749
9	log_ranking	10	0.6031	1.1217	40.1377
10	log_income	11	0.6006	1.1517	41.4599
11	log_hospital1	12	0.5990	1.2079	44.0593

Selection stopped because all effects are in the final model.



The GLMSELECT Procedure

The GLMSELECT Procedure



The GLMSELECT Procedure Selected Model

The selected model, based on Cross Validation, is the model at Step 4.

Effects:	Intercept log_black log_older_adults log_food2 land_area
-----------------	--

Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	4	7.12642	1.78161	2.14
Error	39	32.49724	0.83326	
Corrected Total	43	39.62366		

Root MSE	0.91283
Dependent Mean	0.10744
R-Square	0.1799
Adj R-Sq	0.0957
AIC	42.66648
AICC	44.93675
SBC	5.58743
ASE (Train)	0.73857
ASE (Test)	0.98036
CV PRESS	34.27949

The GLMSELECT Procedure Selected Model

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	0.049573
log_black	1	0.092256
log_older_adults	1	0.205890
log_food2	1	-0.110208
land_area	1	-0.130946

The GLMSELECT Procedure

Data Set	WORK.COVID_STD2
Dependent Variable	sqrt_fatality
Selection Method	LASSO
Stop Criterion	None
Choose Criterion	BIC
Effect Hierarchy Enforced	None

Number of Observations Read	62
Number of Observations Used	62

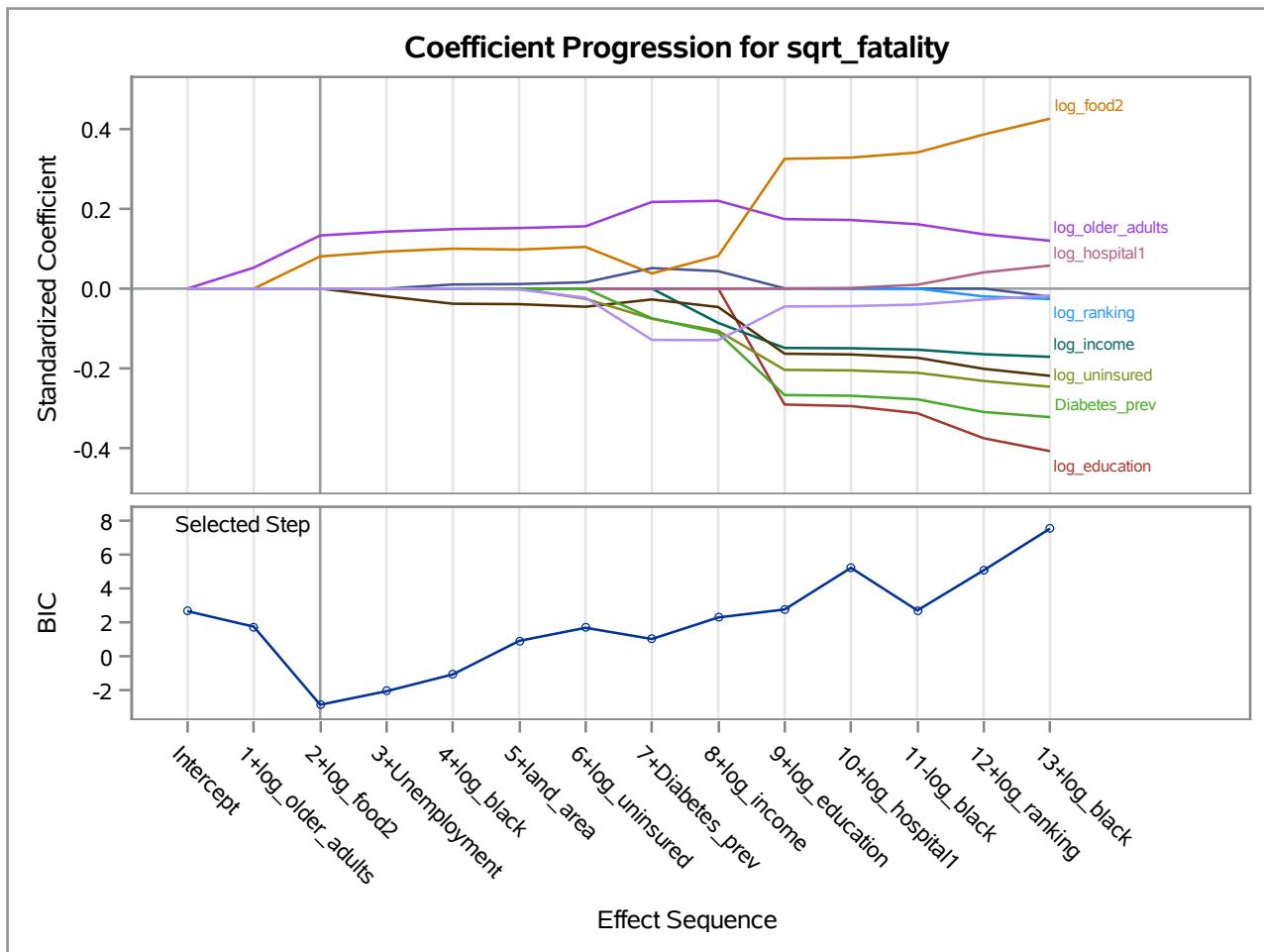
Dimensions	
Number of Effects	12
Number of Parameters	12

The GLMSELECT Procedure

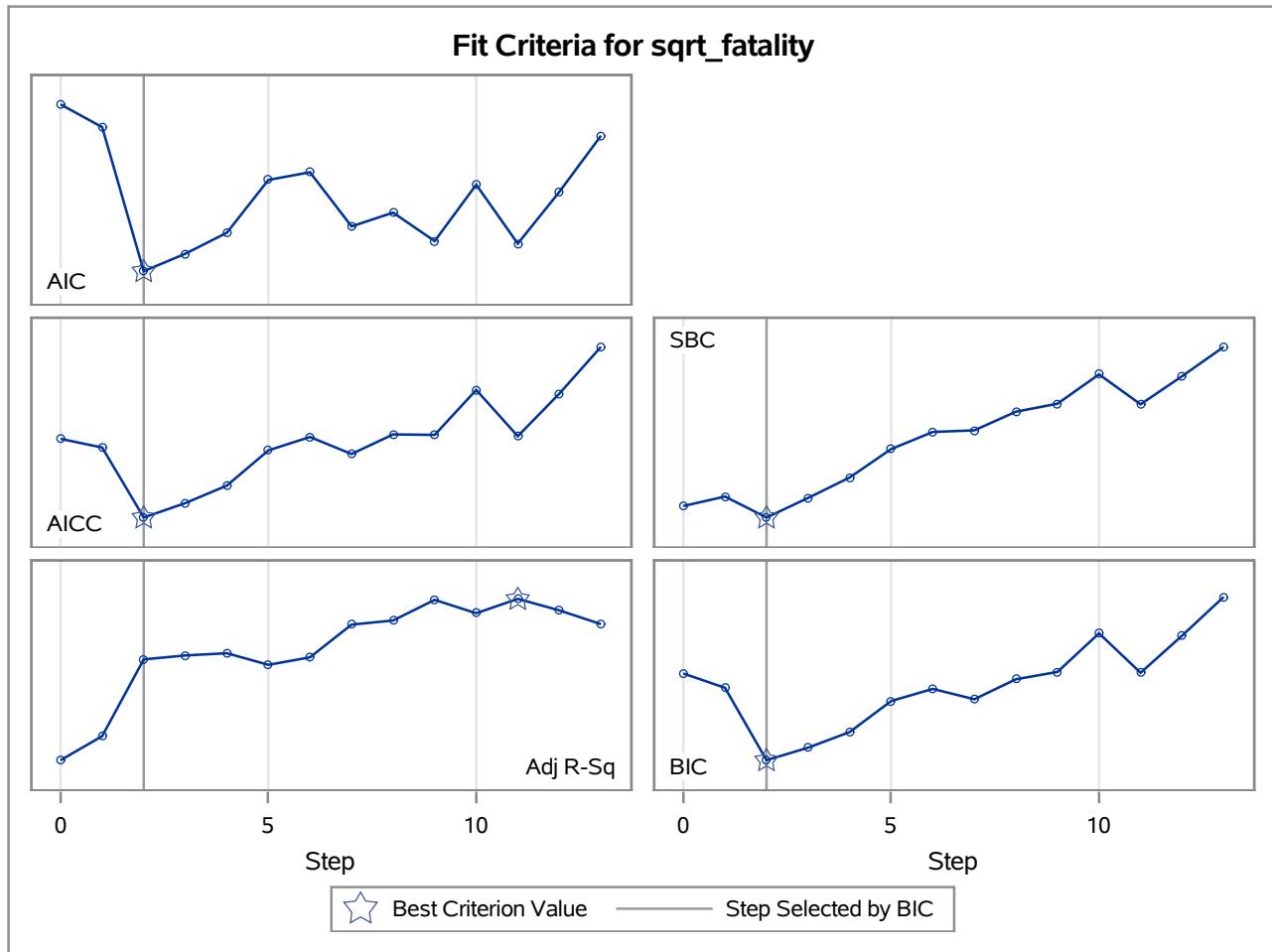
LASSO Selection Summary				
Step	Effect Entered	Effect Removed	Number Effects In	BIC
0	Intercept		1	2.6579
1	log_older_adults		2	1.7454
2	log_food2		3	-2.8628*
3	Unemployment		4	-2.0660
4	log_black		5	-1.0713
5	land_area		6	0.9057
6	log_uninsured		7	1.6771
7	Diabetes_prev		8	1.0172
8	log_income		9	2.2895
9	log_education		10	2.7582
10	log_hospital1		11	5.2165
11		log_black	10	2.7028
12	log_ranking		11	5.0704
13	log_black		12	7.5347
* Optimal Value of Criterion				

Selection stopped because all effects are in the final model.

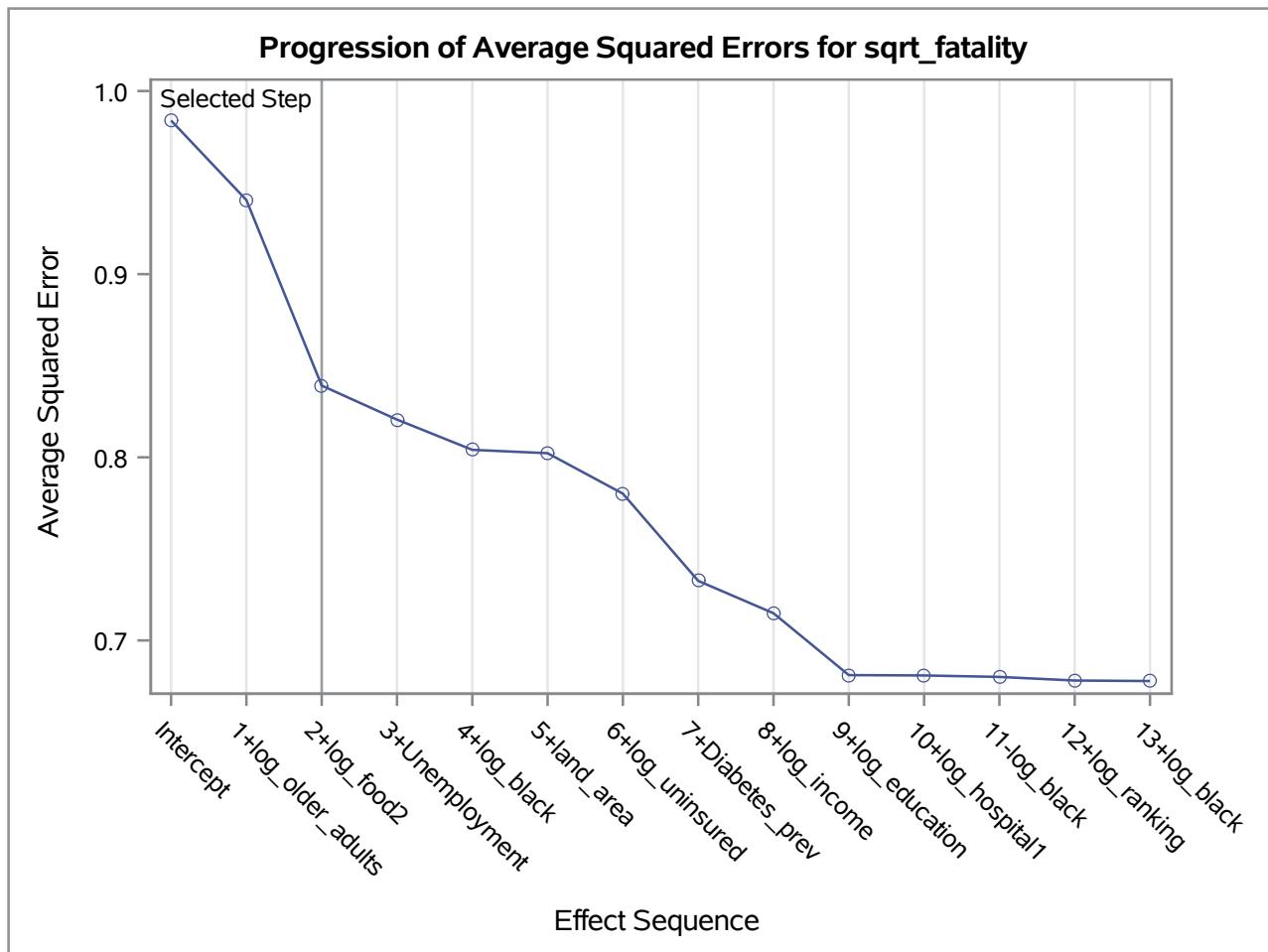
The GLMSELECT Procedure



The GLMSELECT Procedure



The GLMSELECT Procedure



The GLMSELECT Procedure Selected Model

The selected model, based on BIC, is the model at Step 2.

Effects:	Intercept log_older_adults log_food2
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Analysis of Variance				
Source	DF	Sum of Squares	Mean Square	F Value
Model	2	8.97245	4.48623	5.09
Error	59	52.02755	0.88182	
Corrected Total	61	61.00000		

Root MSE	0.93905
Dependent Mean	3.58136E-16
R-Square	0.1471
Adj R-Sq	0.1182
AIC	59.12762
AICC	59.82937
BIC	-2.86278
C(p)	5.90088
SBC	1.50902

Parameter Estimates		
Parameter	DF	Estimate
Intercept	1	4.147576E-16
log_older_adults	1	0.133253
log_food2	1	0.080792

The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality

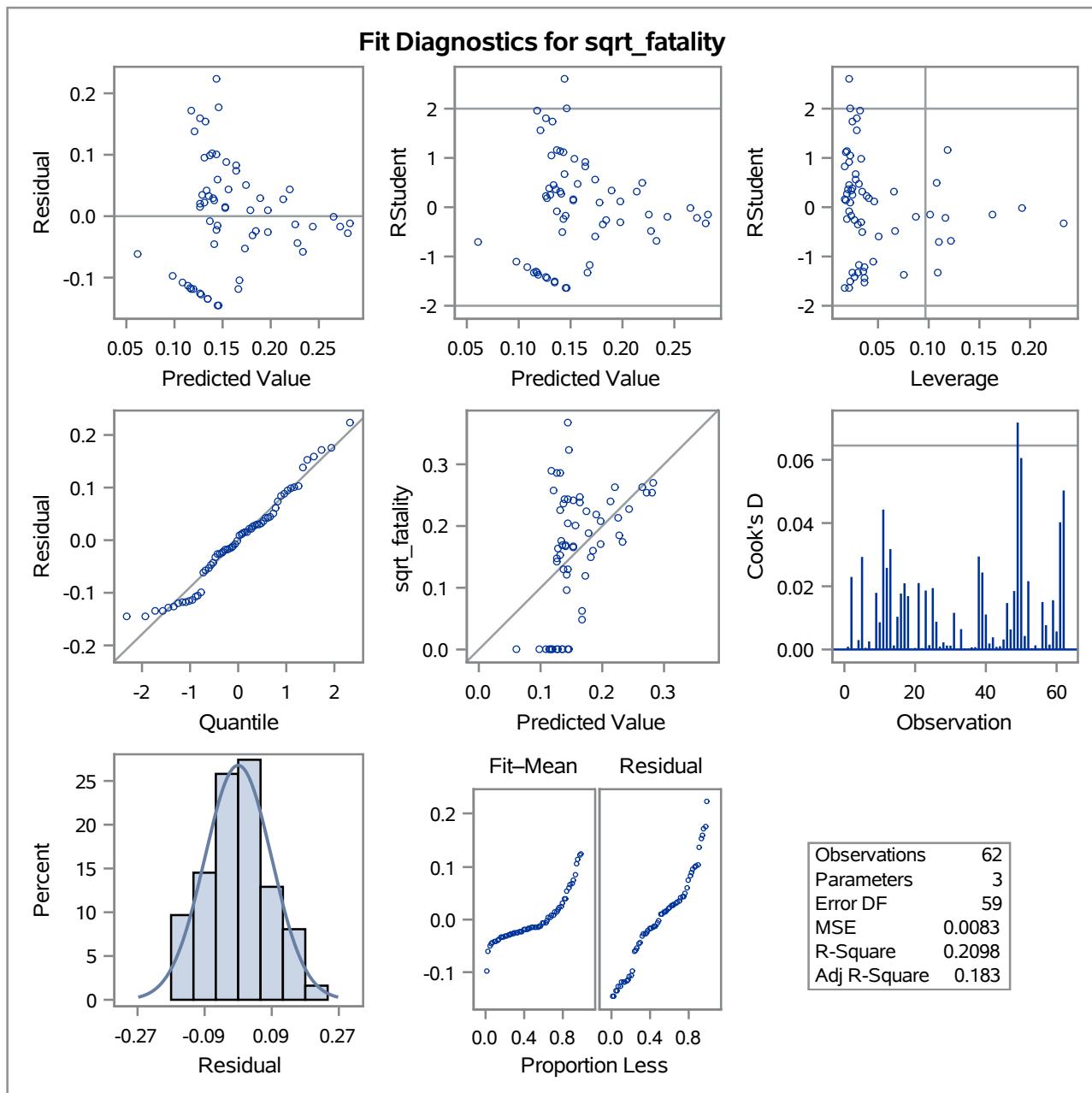
Number of Observations Read	62
Number of Observations Used	62

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.12943	0.06472	7.83	0.0010
Error	59	0.48741	0.00826		
Corrected Total	61	0.61684			

Root MSE	0.09089	R-Square	0.2098
Dependent Mean	0.15931	Adj R-Sq	0.1830
Coeff Var	57.05289		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.04017	0.20878	-0.19	0.8481
log_older_adults	1	0.04989	0.04593	1.09	0.2818
log_food2	1	0.02653	0.03053	0.87	0.3883

The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The REG Procedure
Model: MODEL1
Dependent Variable: sqrt_fatality



The UNIVARIATE Procedure
Variable: resid (Residual)

Moments			
N	62	Sum Weights	62
Mean	0	Sum Observations	0
Std Deviation	0.08938877	Variance	0.00799035
Skewness	0.25849756	Kurtosis	-0.3594304
Uncorrected SS	0.48741148	Corrected SS	0.48741148
Coeff Variation	.	Std Error Mean	0.01135239

Basic Statistical Measures			
Location		Variability	
Mean	0.000000	Std Deviation	0.08939
Median	0.003817	Variance	0.00799
Mode	.	Range	0.36945
		Interquartile Range	0.10183

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	0	Pr > t 	1.0000
Sign	M	0	Pr >= M 	1.0000
Signed Rank	S	-9.5	Pr >= S 	0.9475

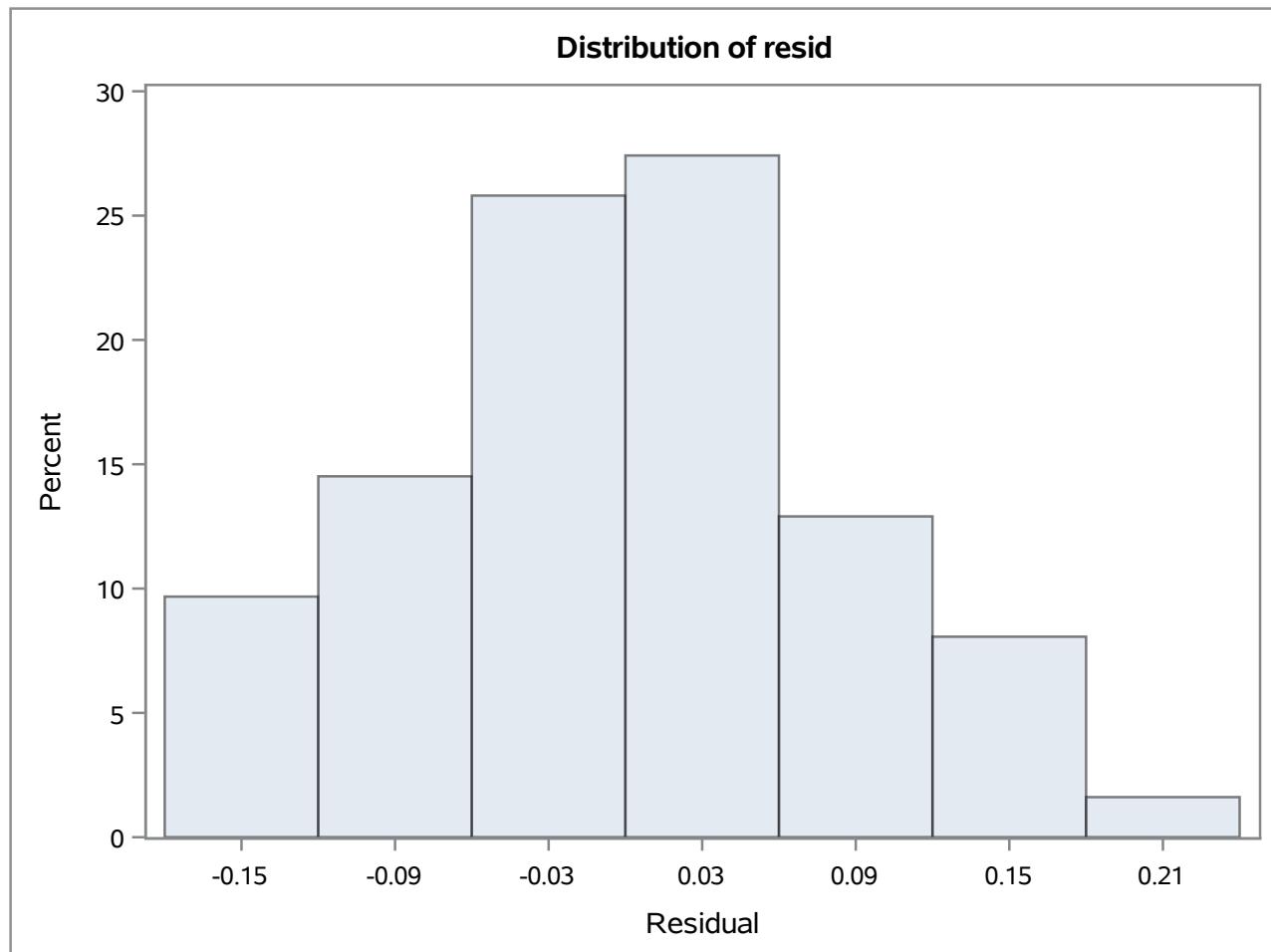
Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.96664	Pr < W	0.0898
Kolmogorov-Smirnov	D	0.0901	Pr > D	>0.1500
Cramer-von Mises	W-Sq	0.067333	Pr > W-Sq	>0.2500
Anderson-Darling	A-Sq	0.553765	Pr > A-Sq	0.1502

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.22360308
99%	0.22360308
95%	0.15936780
90%	0.10305595
75% Q3	0.04356567
50% Median	0.00381716
25% Q1	-0.05826764

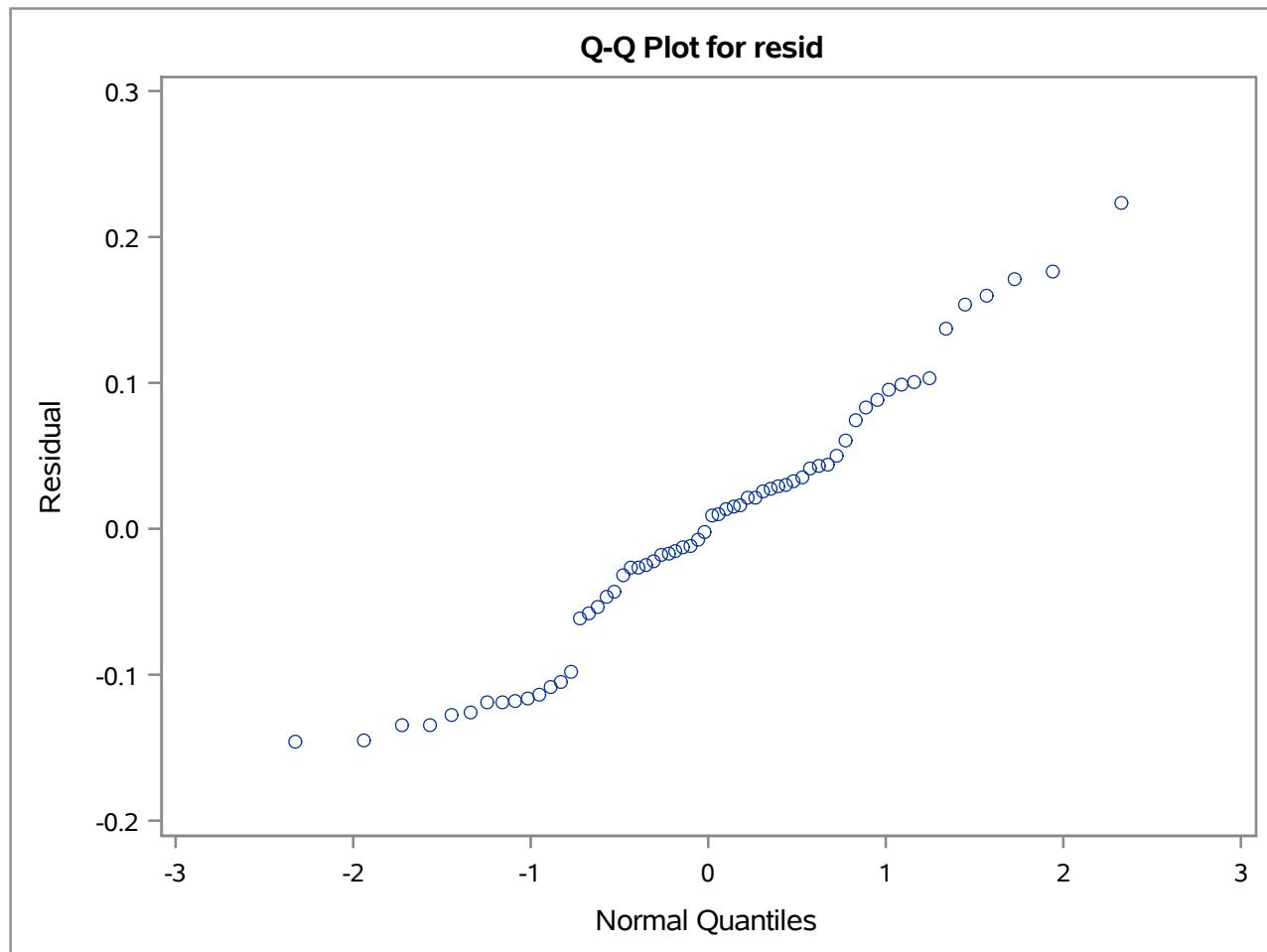
The UNIVARIATE Procedure
Variable: resid (Residual)

Quantiles (Definition 5)	
Level	Quantile
10%	-0.11916187
5%	-0.13459908
1%	-0.14584466
0% Min	-0.14584466

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.145845	59	0.153457	39
-0.144769	23	0.159368	13
-0.134959	5	0.171338	61
-0.134599	18	0.176380	38
-0.127600	12	0.223603	11

The UNIVARIATE Procedure

The UNIVARIATE Procedure



The GENMOD Procedure

Model Information	
Data Set	WORK.COVID3
Distribution	Gamma
Link Function	Log
Dependent Variable	fatality_rate

Number of Observations Read	62
Number of Observations Used	49
Number of Invalid Responses	13

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	34	16.1420	0.4748
Scaled Deviance	34	51.5340	1.5157
Pearson Chi-Square	34	11.8420	0.3483
Scaled Pearson X2	34	37.8059	1.1119
Log Likelihood		119.3942	
Full Log Likelihood		119.3942	
AIC (smaller is better)		-206.7884	
AICC (smaller is better)		-189.7884	
BIC (smaller is better)		-176.5193	

Algorithm converged.

Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept	1	1.4819	9.3864	-16.9151	19.8790	0.02	0.8746
log_black	1	-0.4580	0.4253	-1.2915	0.3755	1.16	0.2815
log_education	1	-4.7139	1.8431	-8.3263	-1.1014	6.54	0.0105
Poverty	1	2.7909	3.2121	-3.5046	9.0865	0.75	0.3849
Unemployment	1	-17.7464	26.1768	-69.0520	33.5593	0.46	0.4978
log_older_adults	1	-0.1142	0.8169	-1.7152	1.4869	0.02	0.8888
log_ranking	1	1.0444	0.7187	-0.3643	2.4531	2.11	0.1462
log_hospital1	1	0.7451	0.6685	-0.5652	2.0554	1.24	0.2650
log_hospital2	1	-1.6150	4.9758	-11.3674	8.1375	0.11	0.7455
log_food1	1	-0.3644	0.9925	-2.3097	1.5808	0.13	0.7135
log_food2	1	0.3148	0.6788	-1.0157	1.6452	0.21	0.6429

The GENMOD Procedure

Analysis Of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Diabetes_prev	1	-27.1764	10.9774	-48.6917	-5.6612	6.13	0.0133
Hypertension_prev	1	-0.9318	3.2265	-7.2555	5.3920	0.08	0.7727
land_area	1	-0.0003	0.0005	-0.0013	0.0006	0.45	0.5046
life_exp	1	-0.0387	0.1022	-0.2390	0.1615	0.14	0.7045
Scale	1	3.1925	0.6143	2.1896	4.6550		

Note: The scale parameter was estimated by maximum likelihood.

LR Statistics For Type 1 Analysis					
Source	2*LogLikelihood	DF	Chi-Square	Pr > ChiSq	
Intercept	223.9362				
log_black	224.1657	1	0.23	0.6319	
log_education	224.6093	1	0.44	0.5054	
Poverty	225.9752	1	1.37	0.2425	
Unemployment	226.5147	1	0.54	0.4627	
log_older_adults	227.0621	1	0.55	0.4594	
log_ranking	228.4920	1	1.43	0.2318	
log_hospital1	228.9651	1	0.47	0.4916	
log_hospital2	229.4640	1	0.50	0.4800	
log_food1	229.5318	1	0.07	0.7946	
log_food2	231.9543	1	2.42	0.1196	
Diabetes_prev	238.1514	1	6.20	0.0128	
Hypertension_prev	238.1953	1	0.04	0.8340	
land_area	238.6449	1	0.45	0.5026	
life_exp	238.7884	1	0.14	0.7048	