The SAS System

Obs	MULCH	DISTANCE	RUN	_TYPE_	_FREQ_	COUNT
1	0	1	1	0	4	15.7500
2	0	1	2	0	4	11.5000
3	0	2	1	0	4	10.0000
4	0	2	2	0	4	6.7500
5	0	3	1	0	4	7.5000
6	0	3	2	0	4	5.2500
7	0	4	1	0	4	4.7500
8	0	4	2	0	4	2.5000
9	0	5	1	0	4	5.0000
10	0	5	2	0	4	2.7500
11	0	6	1	0	4	6.5000
12	0	6	2	0	4	1.2500
13	0	7	1	0	4	2.7500
14	0	7	2	0	4	2.0000
15	0	8	1	0	4	4.2500
16	0	8	2	0	4	1.7500
17	0	9	1	0	4	2.2500
18	0	9	2	0	4	1.0000
19	0	10	1	0	4	1.2500
20	0	10	2	0	4	2.0000
21	0	11	1	0	4	2.0000
22	0	11	2	0	4	1.5000
23	0	12	1	0	4	1.5000
24	0	12	2	0	4	2.0000
25	7	1	1	0	4	4.0000
26	7	1	2	0	4	3.7500
27	7	2	1	0	4	3.2500
28	7	2	2	0	4	4.0000
29	7	3	1	0	4	1.7500
30	7	3	2	0	4	1.0000
31	7	4	1	0	4	0.2500
32	7	4	2	0	4	1.2500
33	7	5	1	0	4	0.5000
34	7	5	2	0	4	0.7500
35	7	6	1	0	4	0.7500
36	7	6	2	0	4	0.2500
37	7	7	1	0	4	1.0000
38	7	7	2	0	4	0.7500
39	7	8	1	0	4	1.0000
40	7	8	2	0	4	0.5000
41	7	9	1	0	4	0.7500
42	7	9	2	0	4	0.0000

43	7	10	1	0	4	0.7500
44	7	10	2	0	4	0.7500
45	7	11	1	0	4	0.3333
46	7	11	2	0	4	0.3333
47	7	12	1	0	4	0.5000
48	7	12	2	0	4	0.0000

The SAS System

The NLIN Procedure
Dependent Variable COUNT
Method: Gauss-Newton

MULCH=0

Iterative Phase			
Iter	A	B	Sum of Squares
0	1.0000	-0.1000	637.1
1	12.8610	-1.0644	505.8
2	7.3773	-0.1435	169.9
3	12.8618	-0.2458	78.4708
4	15.7308	-0.2691	62.6999
5	16.0402	-0.2726	62.5772
6	16.0752	-0.2734	62.5751
7	16.0833	-0.2736	62.5750
8	16.0854	-0.2737	62.5750
9	16.0859	-0.2737	62.5750
10	16.0860	-0.2737	62.5750

NOTE: Convergence criterion met.

Estimation Summary	
Method	Gauss-Newton
Iterations	10
Subiterations	2
Average Subiterations	0.2
R	4.841E-6
PPC(B)	3.007E-6
RPC(B)	0.000012
Object	4.74E-10
Objective	62.57499
Observations Read	24
Observations Used	24
Observations Missing	0

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	2	709.1	354.6	124.65	<.0001
Error	22	62.5750	2.8443		
Uncorrected Total	24	771.7			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
A	16.0860	1.7100	12.5396	19.6324

B	-0.2737	0.0363	-0.3489	-0.1985

Approximate Correlation Matrix		
	A	**B**
A	1.0000000	-0.8031608
B	-0.8031608	1.0000000

The SAS System

The NLIN Procedure
Dependent Variable COUNT
Method: Gauss-Newton

MULCH=7

Iterative Phase			
Iter	A	B	Sum of Squares
0	1.0000	-0.1000	36.7955
1	3.9781	-0.4553	17.4921
2	5.9191	-0.3271	7.3763
3	5.7111	-0.3562	6.5202
4	5.8142	-0.3678	6.4997
5	5.8464	-0.3706	6.4986
6	5.8536	-0.3713	6.4986
7	5.8552	-0.3714	6.4986
8	5.8555	-0.3714	6.4986
9	5.8556	-0.3714	6.4986

NOTE: Convergence criterion met.

Estimation Summary	
Method	Gauss-Newton
Iterations	9
R	5.747E-6
PPC(B)	3.822E-6
RPC(B)	0.000018
Object	8.55E-10
Objective	6.498563
Observations Read	24
Observations Used	24
Observations Missing	0

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	2	62.2237	31.1118	105.32	<.0001
Error	22	6.4986	0.2954		
Uncorrected Total	24	68.7222			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
A	5.8556	0.7129	4.3772	7.3340
B	-0.3714	0.0527	-0.4806	-0.2622

Approximate Correlation Matrix		

	A	B
A	1.0000000	-0.8244421
B	-0.8244421	1.0000000

The SAS System

Obs	MULCH	DISTANCE	RUN	_TYPE_	_FREQ_	COUNT	LOGCOUNT
1	0	1	1	0	4	15.7500	2.81840
2	0	1	2	0	4	11.5000	2.52573
3	0	2	1	0	4	10.0000	2.39790
4	0	2	2	0	4	6.7500	2.04769
5	0	3	1	0	4	7.5000	2.14007
6	0	3	2	0	4	5.2500	1.83258
7	0	4	1	0	4	4.7500	1.74920
8	0	4	2	0	4	2.5000	1.25276
9	0	5	1	0	4	5.0000	1.79176
10	0	5	2	0	4	2.7500	1.32176
11	0	6	1	0	4	6.5000	2.01490
12	0	6	2	0	4	1.2500	0.81093
13	0	7	1	0	4	2.7500	1.32176
14	0	7	2	0	4	2.0000	1.09861
15	0	8	1	0	4	4.2500	1.65823
16	0	8	2	0	4	1.7500	1.01160
17	0	9	1	0	4	2.2500	1.17865
18	0	9	2	0	4	1.0000	0.69315
19	0	10	1	0	4	1.2500	0.81093
20	0	10	2	0	4	2.0000	1.09861
21	0	11	1	0	4	2.0000	1.09861
22	0	11	2	0	4	1.5000	0.91629
23	0	12	1	0	4	1.5000	0.91629
24	0	12	2	0	4	2.0000	1.09861
25	7	1	1	0	4	4.0000	1.60944
26	7	1	2	0	4	3.7500	1.55814
27	7	2	1	0	4	3.2500	1.44692
28	7	2	2	0	4	4.0000	1.60944
29	7	3	1	0	4	1.7500	1.01160
30	7	3	2	0	4	1.0000	0.69315
31	7	4	1	0	4	0.2500	0.22314
32	7	4	2	0	4	1.2500	0.81093
33	7	5	1	0	4	0.5000	0.40547
34	7	5	2	0	4	0.7500	0.55962
35	7	6	1	0	4	0.7500	0.55962
36	7	6	2	0	4	0.2500	0.22314
37	7	7	1	0	4	1.0000	0.69315
38	7	7	2	0	4	0.7500	0.55962
39	7	8	1	0	4	1.0000	0.69315
40	7	8	2	0	4	0.5000	0.40547
41	7	9	1	0	4	0.7500	0.55962
42	7	9	2	0	4	0.0000	0.00000

43	7	10	1	0	4	0.7500	0.55962
44	7	10	2	0	4	0.7500	0.55962
45	7	11	1	0	4	0.3333	0.28768
46	7	11	2	0	4	0.3333	0.28768
47	7	12	1	0	4	0.5000	0.40547
48	7	12	2	0	4	0.0000	0.00000

The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT

MULCH=0

Number of Observations Read	24
Number of Observations Used	24

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.64019	5.64019	47.72	<.0001
Error	22	2.60046	0.11820		
Corrected Total	23	8.24065			

Root MSE	0.34381	R-Square	0.6844
Dependent Mean	1.48354	Adj R-Sq	0.6701
Coeff Var	23.17467		

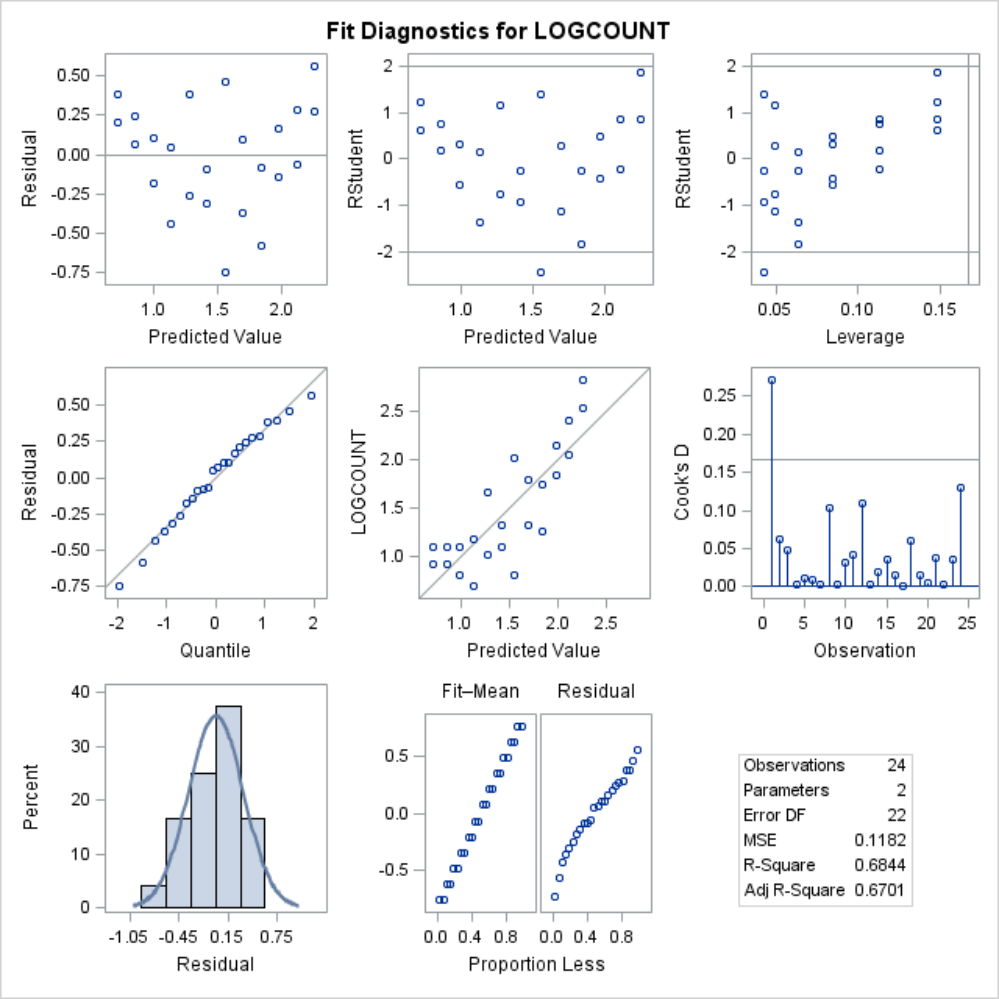
Parameter Estimates

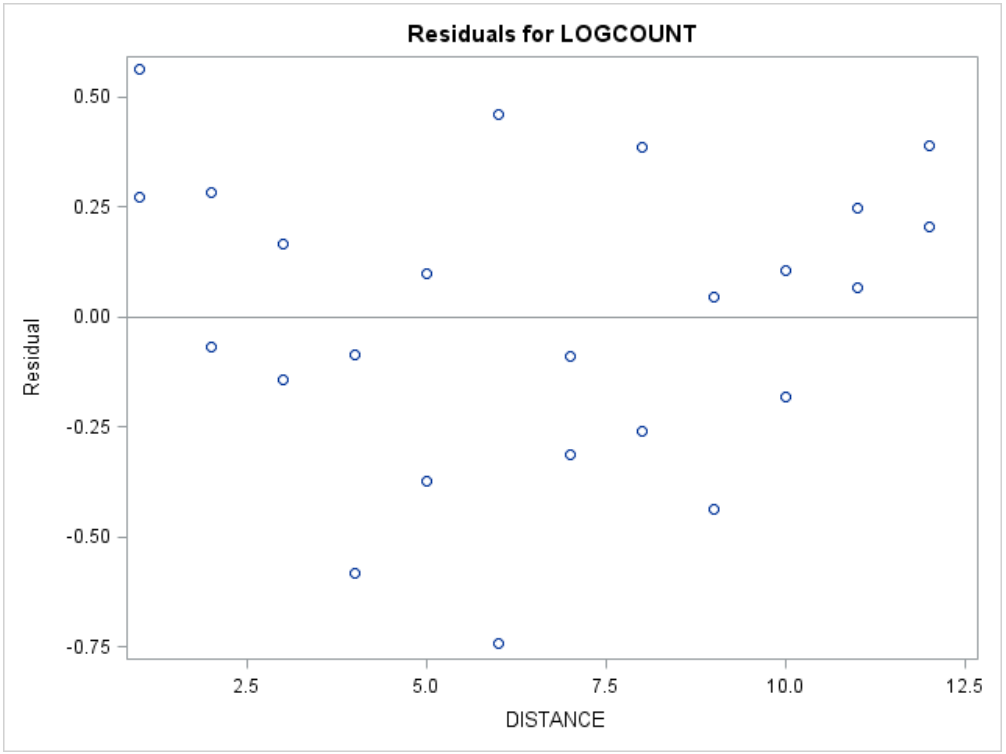
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	2.39635	0.14962	16.02	<.0001
DISTANCE	1	-0.14043	0.02033	-6.91	<.0001

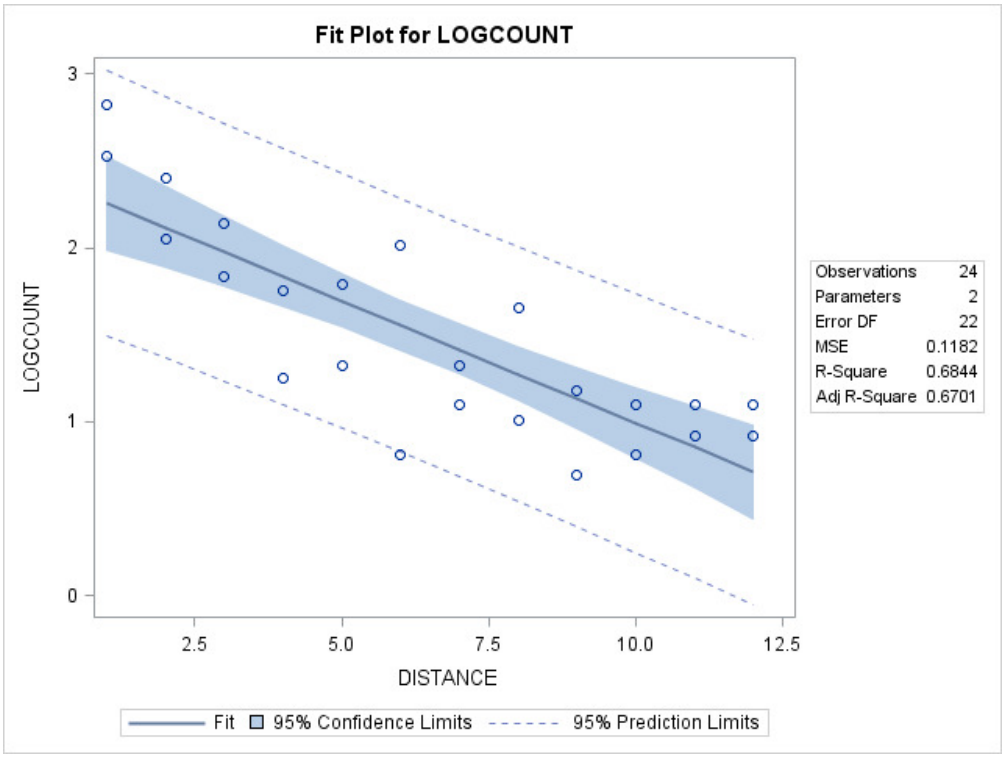
The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT

MULCH=0




Residuals for LOGCOUNT
Residual
0.50
0.25
0.00
-0.25
-0.50
-0.75
2.5
5.0
7.5
10.0
12.5
DISTANCE


Fit Plot for LOGCOUNT
LOGCOUNT
3
2
1
0
2.5
5.0
7.5
10.0
12.5
DISTANCE
Observations 24
Parameters 2
Error DF 22
MSE 0.1182
R-Square 0.6844
Adj R-Square 0.6701
Fit
95% Confidence Limits
95% Prediction Limits

The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT

MULCH=7

Number of Observations Read	24
Number of Observations Used	24

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.97234	2.97234	29.85	<.0001
Error	22	2.19050	0.09957		
Corrected Total	23	5.16284			

Root MSE	0.31554	R-Square	0.5757
Dependent Mean	0.65507	Adj R-Sq	0.5564
Coeff Var	48.16968		

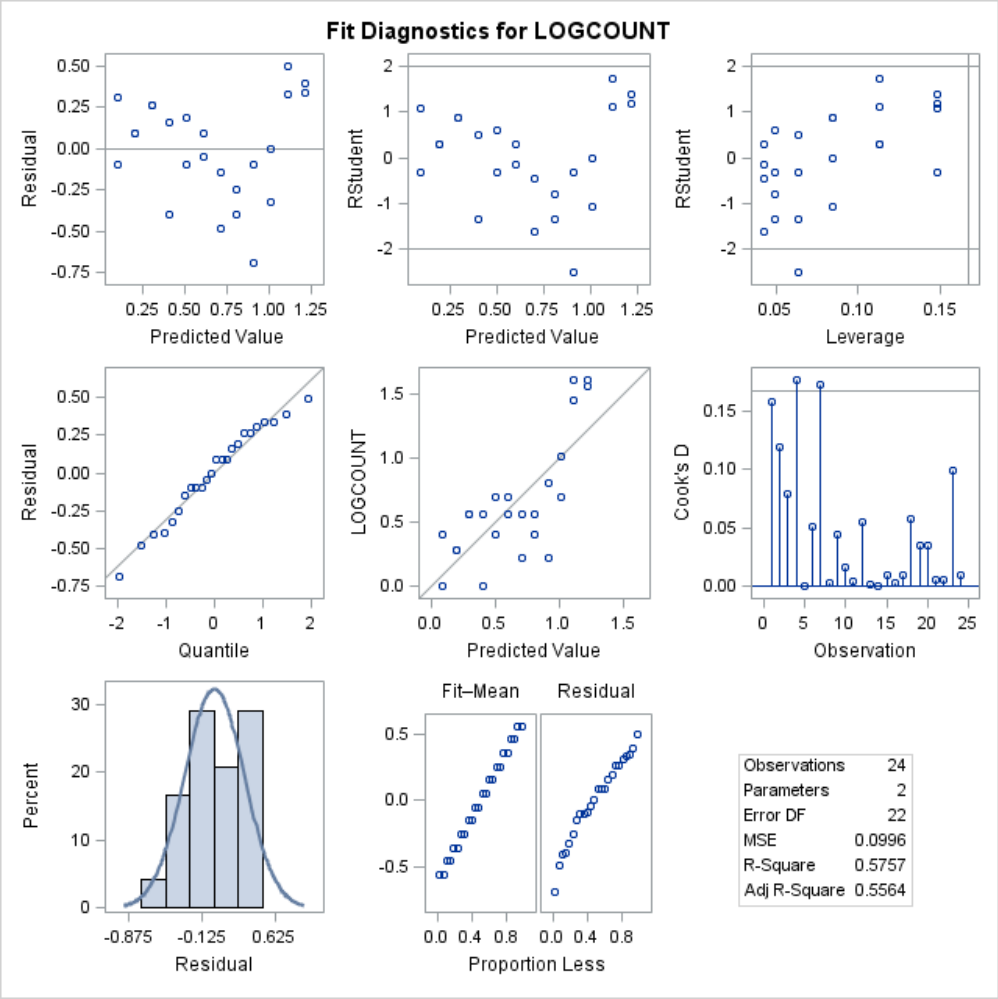
Parameter Estimates

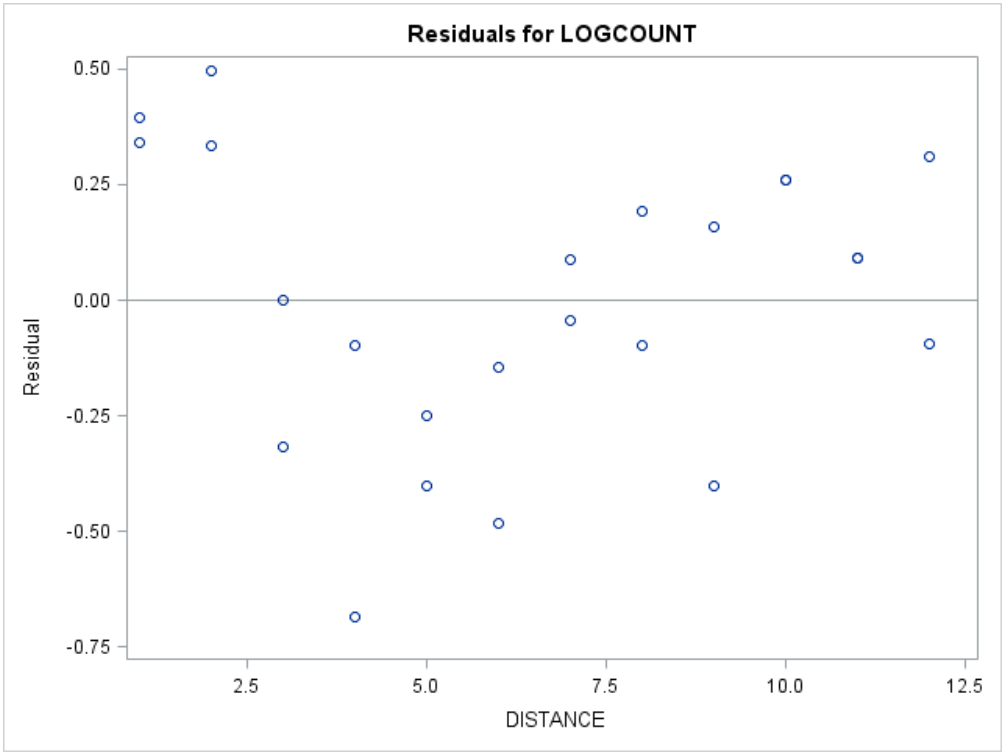
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1.31771	0.13732	9.60	<.0001
DISTANCE	1	-0.10194	0.01866	-5.46	<.0001

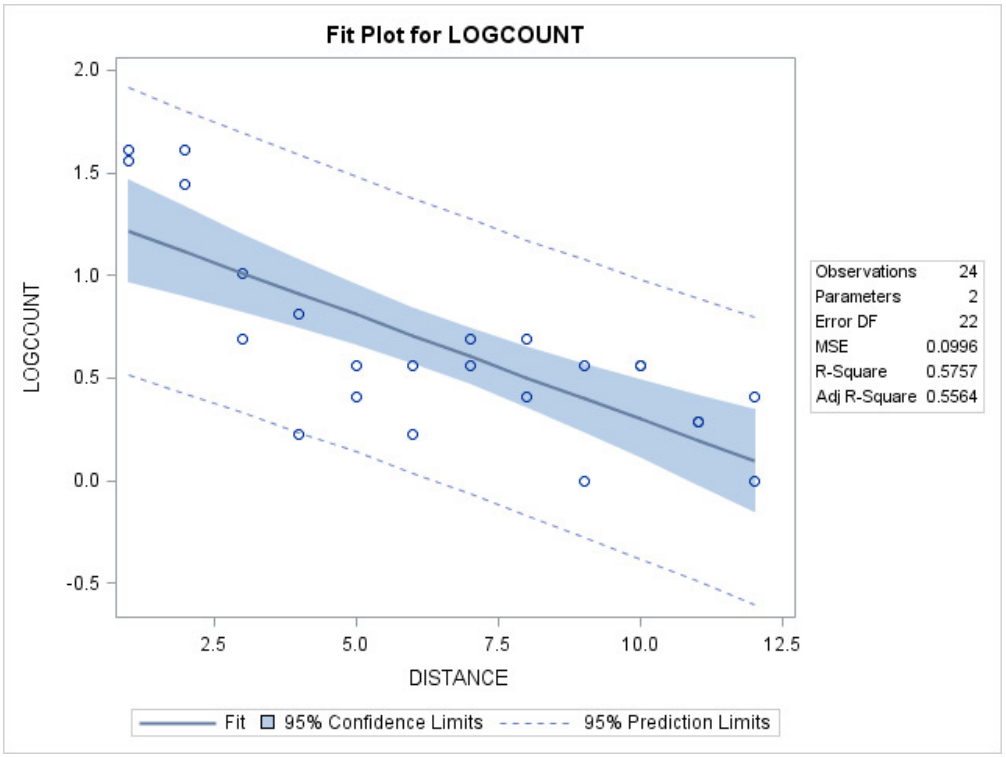
The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT

MULCH=7




Residuals for LOGCOUNT
Residual
0.50
0.25
0.00
-0.25
-0.50
-0.75
2.5
5.0
7.5
10.0
12.5
DISTANCE


Fit Plot for LOGCOUNT
LOGCOUNT
2.0
1.5
1.0
0.5
0.0
-0.5
2.5
5.0
7.5
10.0
12.5
DISTANCE
Observations 24
Parameters 2
Error DF 22
MSE 0.0996
R-Square 0.5757
Adj R-Square 0.5564
Fit
95% Confidence Limits
95% Prediction Limits

The SAS System

The Mixed Procedure

Model Information	
Data Set	WORK.A3
Dependent Variable	LOGCOUNT
Covariance Structures	Variance Components, Autoregressive
Subject Effect	RUN*MULCH
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
RUN	2	1 2
MULCH	2	0 7

Dimensions	
Covariance Parameters	3
Columns in X	6
Columns in Z	2
Subjects	1
Max Obs per Subject	48

Number of Observations	
Number of Observations Read	48
Number of Observations Used	48
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	44.96652210	
1	4	31.35188694	.
2	1	31.30188606	0.00030712
3	1	31.29332011	0.00001519
4	1	31.29293029	0.00000005
5	1	31.29292915	0.00000000

Convergence criteria met.

Estimated R Matrix for RUN*MULCH 1 0												
Row	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9	Col10	Col11	Col12
1	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974	0.002235	0.001257	0.000707	0.000398	0.000224
2	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974	0.002235	0.001257	0.000707	0.000398
3	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974	0.002235	0.001257	0.000707
4	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974	0.002235	0.001257

5	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974	0.002235
6	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066	0.003974
7	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256	0.007066
8	0.002235	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234	0.01256
9	0.001257	0.002235	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971	0.02234
10	0.000707	0.001257	0.002235	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061	0.03971
11	0.000398	0.000707	0.001257	0.002235	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255	0.07061
12	0.000224	0.000398	0.000707	0.001257	0.002235	0.003974	0.007066	0.01256	0.02234	0.03971	0.07061	0.1255

Estimated R Correlation Matrix for RUN*MULCH 1 0

Row	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9	Col10	Col11	Col12
1	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165	0.01780	0.01001	0.005632	0.003168	0.001782
2	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165	0.01780	0.01001	0.005632	0.003168
3	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165	0.01780	0.01001	0.005632
4	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165	0.01780	0.01001
5	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165	0.01780
6	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628	0.03165
7	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001	0.05628
8	0.01780	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779	0.1001
9	0.01001	0.01780	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163	0.1779
10	0.005632	0.01001	0.01780	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624	0.3163
11	0.003168	0.005632	0.01001	0.01780	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000	0.5624
12	0.001782	0.003168	0.005632	0.01001	0.01780	0.03165	0.05628	0.1001	0.1779	0.3163	0.5624	1.0000

Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr Z
RUN		0.006563	0.03372	0.19	0.4228
AR(1)	RUN*MULCH	0.5624	0.1742	3.23	0.0012
Residual		0.1255	0.04939	2.54	0.0055

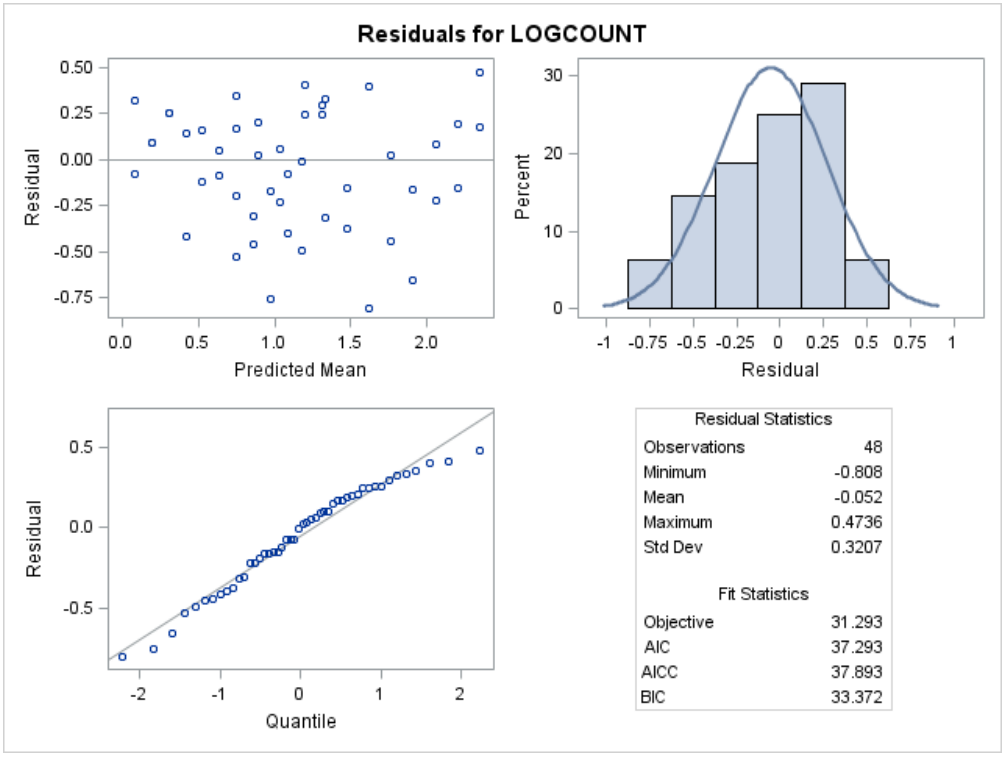
Fit Statistics

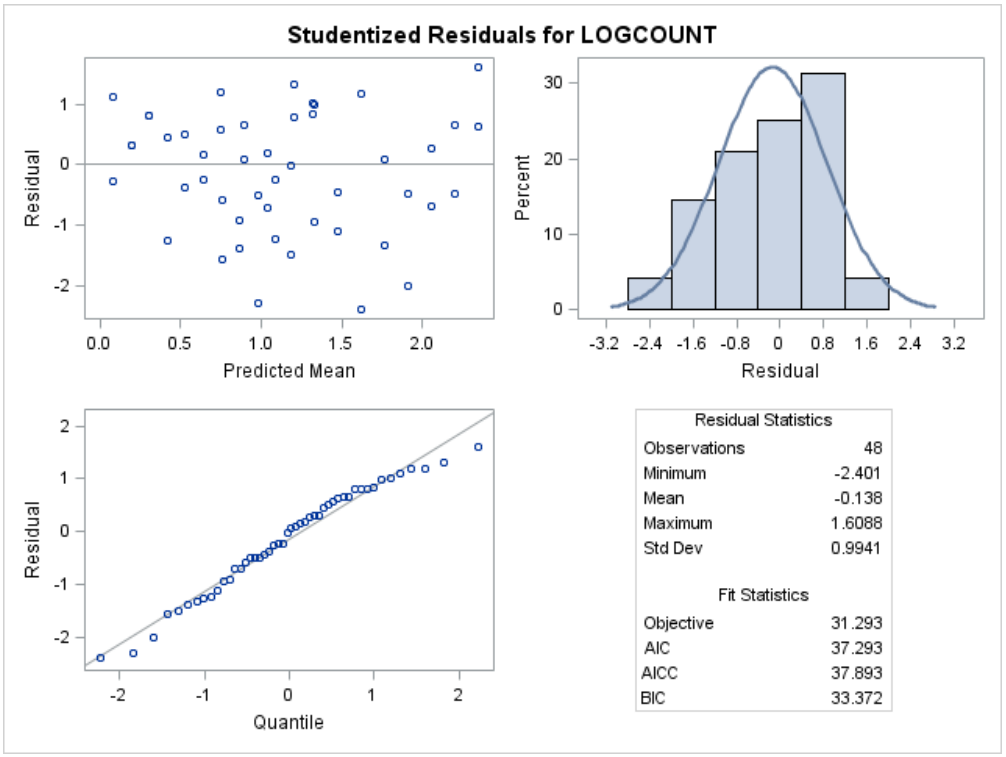
-2 Res Log Likelihood	31.3
AIC (Smaller is Better)	37.3
AICC (Smaller is Better)	37.9
BIC (Smaller is Better)	33.4

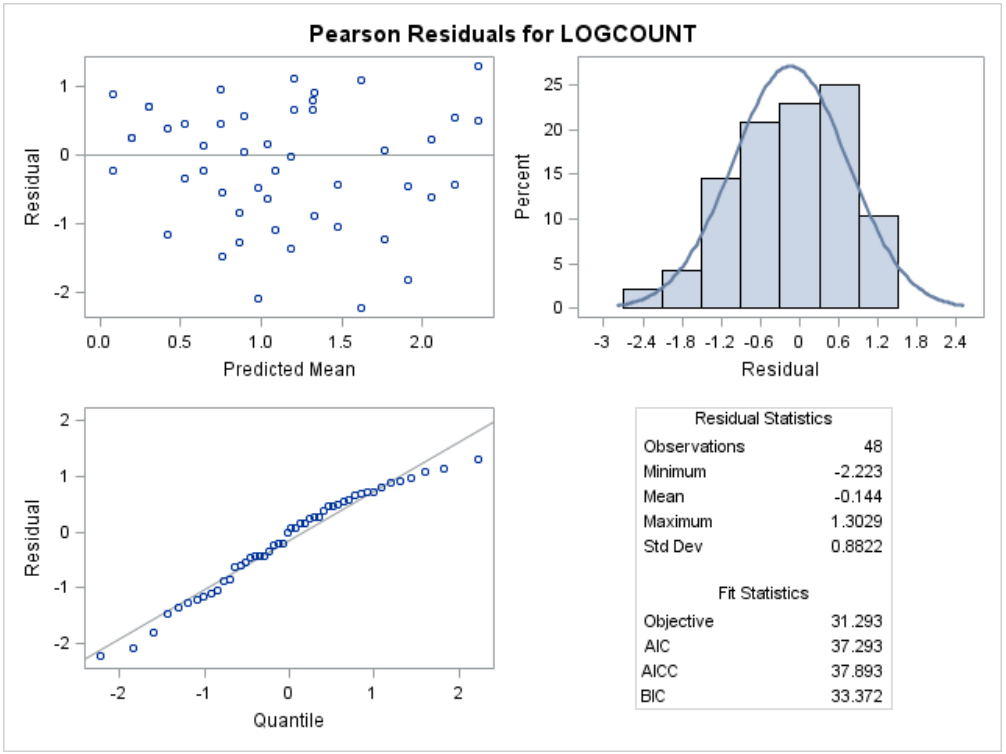
Solution for Fixed Effects

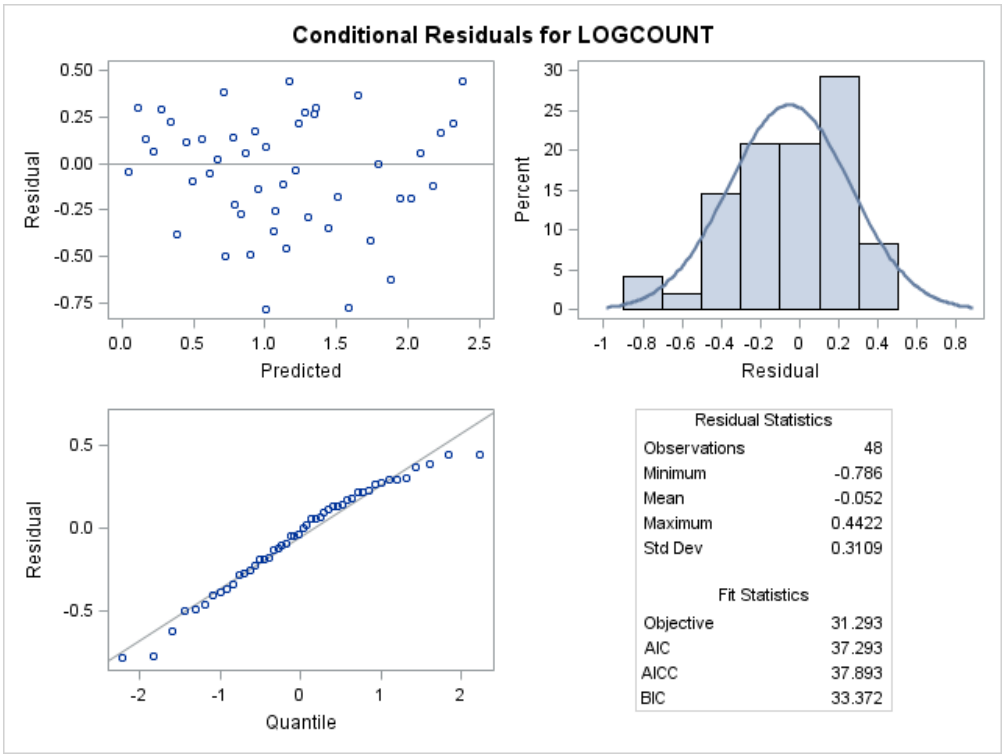
Effect	MULCH	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		1.4265	0.2368	2	6.02	0.0265
MULCH	0	1.0635	0.3250	2	3.27	0.0820
MULCH	7	0	.	.	.	.
DISTANCE		-0.1122	0.02976	42	-3.77	0.0005
DISTANCE*MULCH	0	-0.03296	0.04209	42	-0.78	0.4380
DISTANCE*MULCH	7	0	.	.	.	.

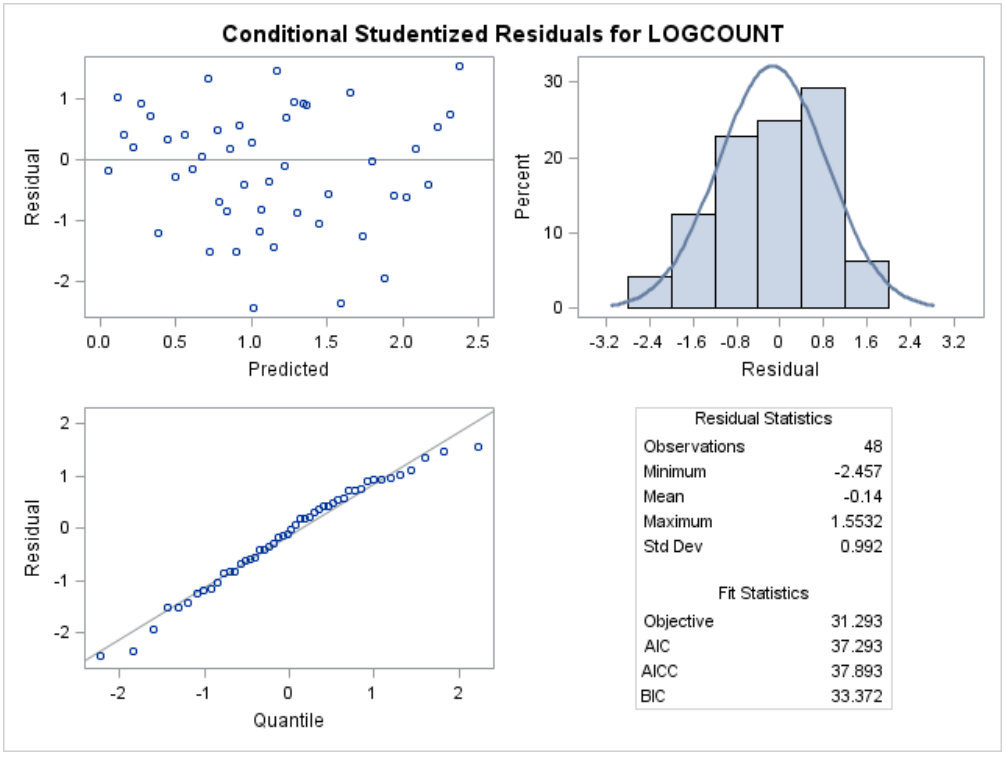
Type 3 Tests of Fixed Effects				
Effect	**Num DF**	**Den DF**	**F Value**	**Pr > F**
MULCH	1	2	10.71	0.0820
DISTANCE	1	42	37.40	<.0001
DISTANCE*MULCH	1	42	0.61	0.4380

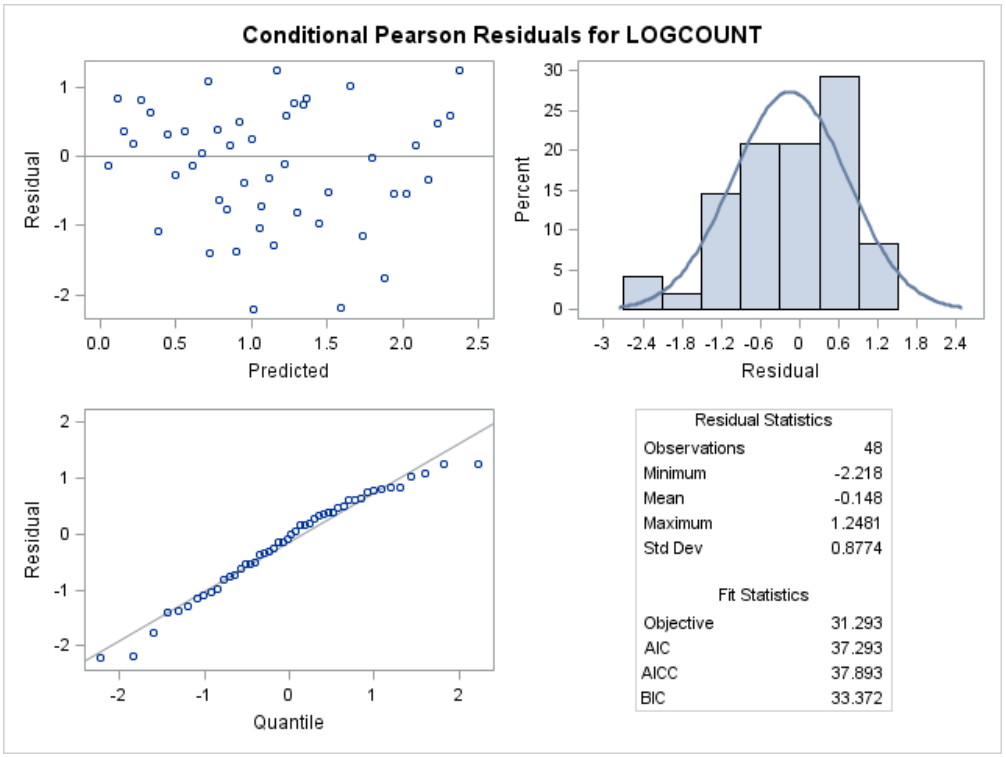





Pearson Residuals for LOGCOUNT
Residual
Predicted Mean
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.223
Mean -0.144
Maximum 1.3029
Std Dev 0.8822
Fit Statistics
Objective 31.293
AIC 37.293
AICC 37.893
BIC 33.372


Conditional Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -0.786
Mean -0.052
Maximum 0.4422
Std Dev 0.3109
Fit Statistics
Objective 31.293
AIC 37.293
AICC 37.893
BIC 33.372


Conditional Studentized Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.457
Mean -0.14
Maximum 1.5532
Std Dev 0.992
Fit Statistics
Objective 31.293
AIC 37.293
AICC 37.893
BIC 33.372


Conditional Pearson Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.218
Mean -0.148
Maximum 1.2481
Std Dev 0.8774
Fit Statistics
Objective 31.293
AIC 37.293
AICC 37.893
BIC 33.372

The SAS System

The Mixed Procedure

Model Information	
Data Set	WORK.A3
Dependent Variable	LOGCOUNT
Covariance Structures	Variance Components, Autoregressive
Subject Effect	RUN*MULCH
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
RUN	2	1 2
MULCH	2	0 7

Dimensions	
Covariance Parameters	3
Columns in X	3
Columns in Z	2
Subjects	1
Max Obs per Subject	48

Number of Observations	
Number of Observations Read	48
Number of Observations Used	48
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	41.55956667	
1	3	27.44743822	0.00154408
2	2	27.40470779	0.00000075
3	1	27.40468733	0.00000000

Convergence criteria met.

Estimated R Matrix for RUN*MULCH 1 0												
Row	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9	Col10	Col11	Col12
1	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625	0.002015	0.001120	0.000622	0.000346	0.000192
2	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625	0.002015	0.001120	0.000622	0.000346
3	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625	0.002015	0.001120	0.000622
4	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625	0.002015	0.001120
5	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625	0.002015
6	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522	0.003625

7	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173	0.006522
8	0.002015	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111	0.01173
9	0.001120	0.002015	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799	0.02111
10	0.000622	0.001120	0.002015	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834	0.03799
11	0.000346	0.000622	0.001120	0.002015	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230	0.06834
12	0.000192	0.000346	0.000622	0.001120	0.002015	0.003625	0.006522	0.01173	0.02111	0.03799	0.06834	0.1230

Estimated R Correlation Matrix for RUN*MULCH 1 0

Row	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9	Col10	Col11	Col12
1	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948	0.01639	0.009108	0.005062	0.002814	0.001564
2	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948	0.01639	0.009108	0.005062	0.002814
3	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948	0.01639	0.009108	0.005062
4	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948	0.01639	0.009108
5	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948	0.01639
6	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304	0.02948
7	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544	0.05304
8	0.01639	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717	0.09544
9	0.009108	0.01639	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089	0.1717
10	0.005062	0.009108	0.01639	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558	0.3089
11	0.002814	0.005062	0.009108	0.01639	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000	0.5558
12	0.001564	0.002814	0.005062	0.009108	0.01639	0.02948	0.05304	0.09544	0.1717	0.3089	0.5558	1.0000

Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr Z
RUN		0.007164	0.03326	0.22	0.4147
AR(1)	RUN*MULCH	0.5558	0.1634	3.40	0.0007
Residual		0.1230	0.04448	2.76	0.0029

Fit Statistics

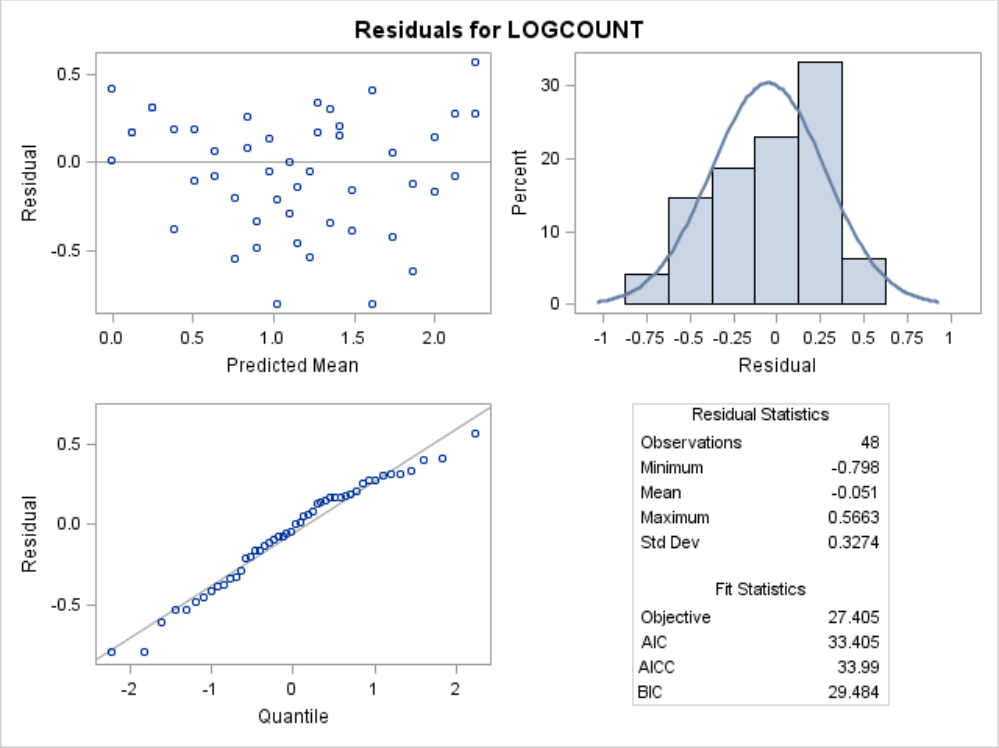
-2 Res Log Likelihood	27.4
AIC (Smaller is Better)	33.4
AICC (Smaller is Better)	34.0
BIC (Smaller is Better)	29.5

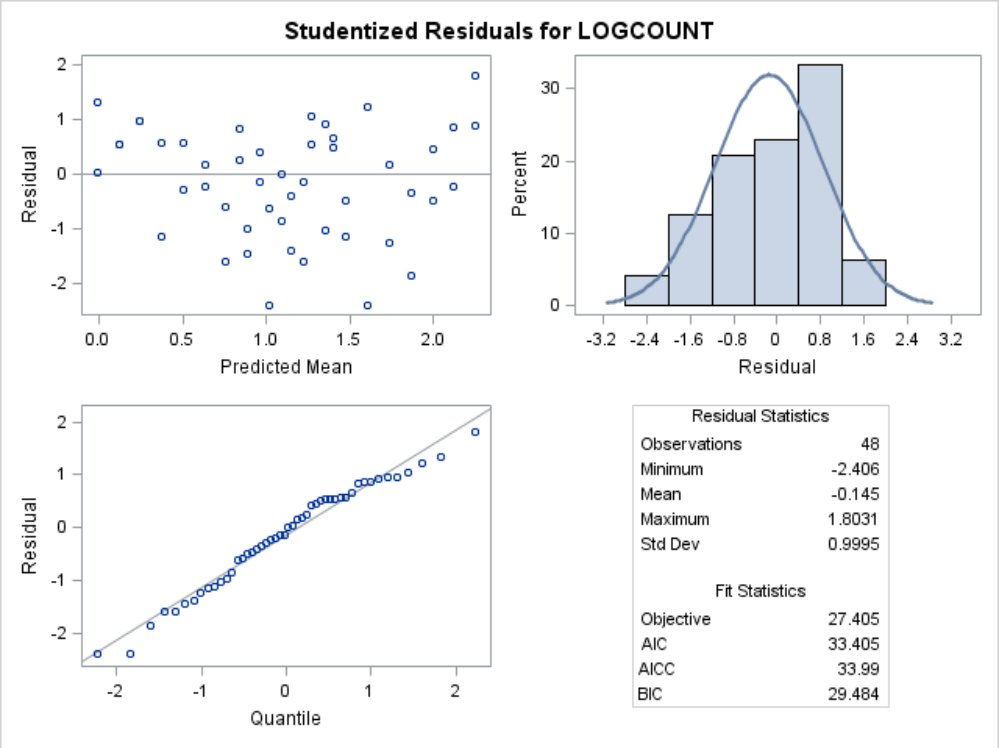
Solution for Fixed Effects

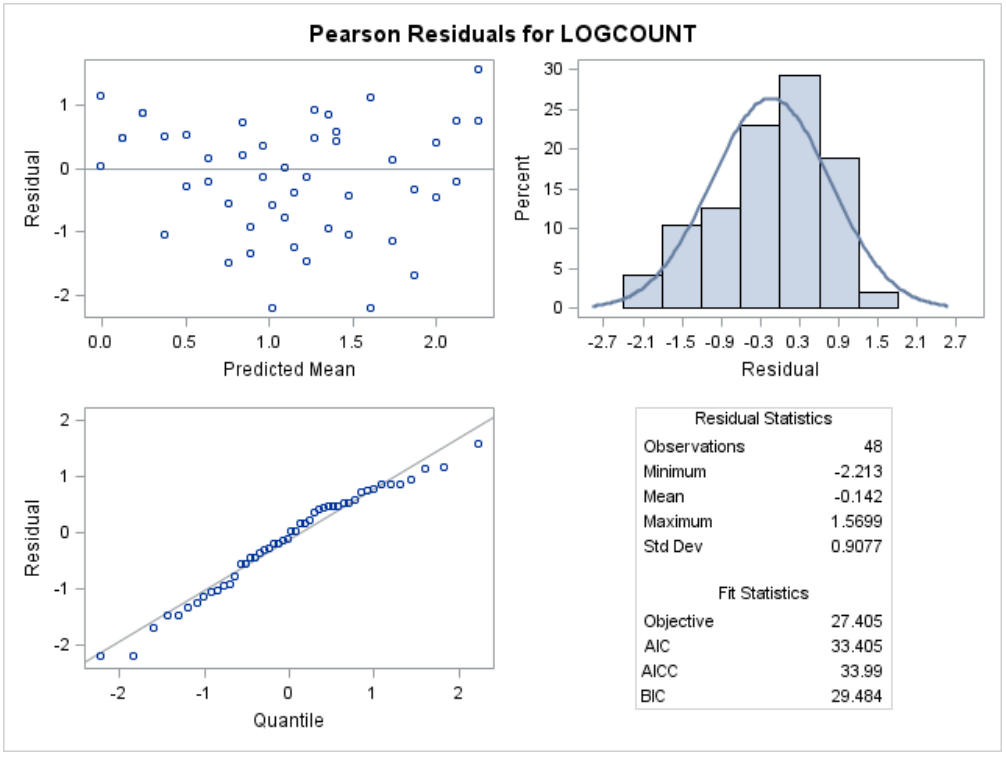
Effect	MULCH	Estimate	Standard Error	DF	t Value	Pr > |t|
MULCH	0	2.3806	0.1914	2	12.44	0.0064
MULCH	7	1.5318	0.1914	2	8.00	0.0153
DISTANCE		-0.1286	0.02077	43	-6.19	<.0001

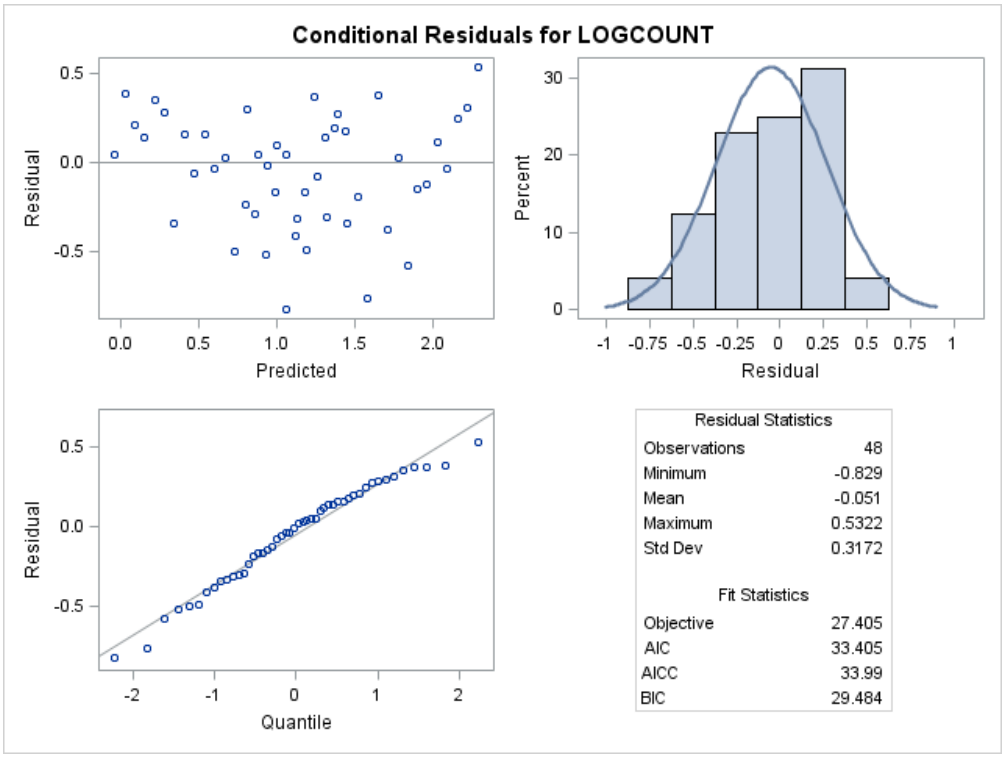
Type 3 Tests of Fixed Effects

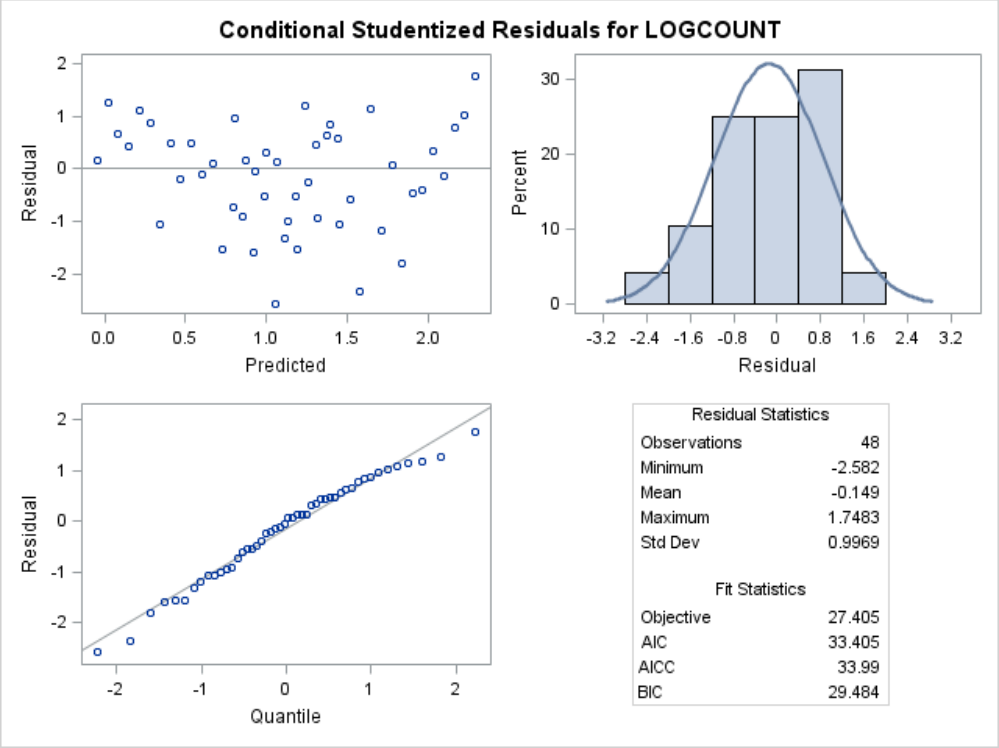
Effect	Num DF	Den DF	F Value	Pr > F
MULCH	2	2	77.61	0.0127
DISTANCE	1	43	38.33	<.0001

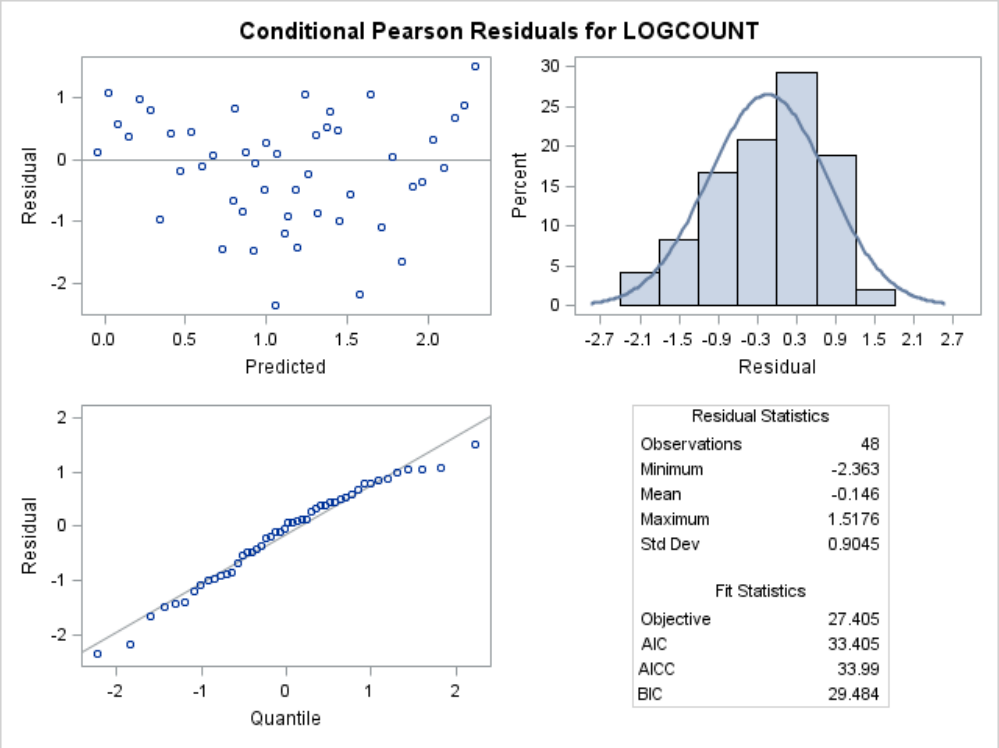

Residuals for LOGCOUNT
Residual
Predicted Mean
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -0.798
Mean -0.051
Maximum 0.5663
Std Dev 0.3274
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484


Studentized Residuals for LOGCOUNT
Residual
Predicted Mean
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.406
Mean -0.145
Maximum 1.8031
Std Dev 0.9995
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484


Pearson Residuals for LOGCOUNT
Residual
Predicted Mean
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.213
Mean -0.142
Maximum 1.5699
Std Dev 0.9077
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484


Conditional Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -0.829
Mean -0.051
Maximum 0.5322
Std Dev 0.3172
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484


Conditional Studentized Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.582
Mean -0.149
Maximum 1.7483
Std Dev 0.9969
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484


Conditional Pearson Residuals for LOGCOUNT
Residual
Predicted
Percent
Residual
Residual
Quantile
Residual Statistics
Observations 48
Minimum -2.363
Mean -0.146
Maximum 1.5176
Std Dev 0.9045
Fit Statistics
Objective 27.405
AIC 33.405
AICC 33.99
BIC 29.484

The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT

Number of Observations Read	48
Number of Observations Used	48

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	16.63212	16.63212	152.78	<.0001
Error	46	5.00780	0.10887		
Corrected Total	47	21.63991			

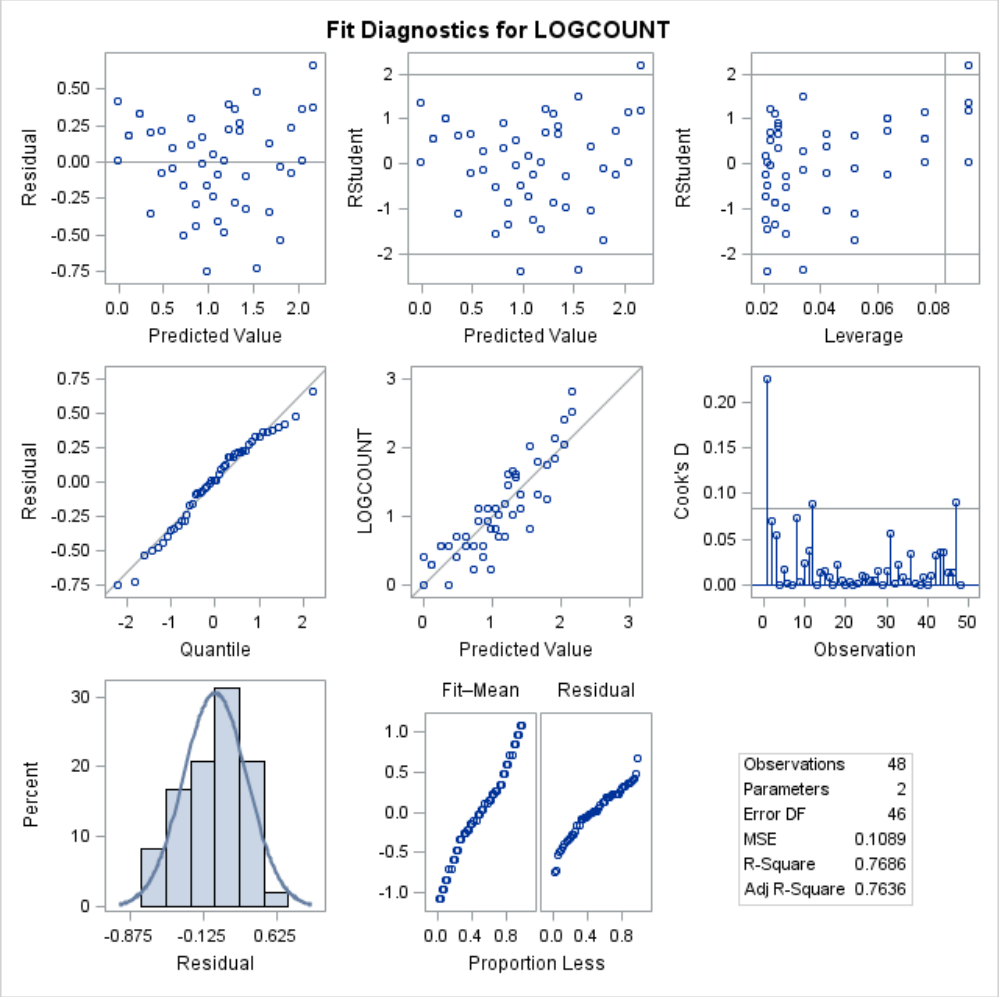
Root MSE	0.32995	R-Square	0.7686
Dependent Mean	1.06931	Adj R-Sq	0.7636
Coeff Var	30.85620		

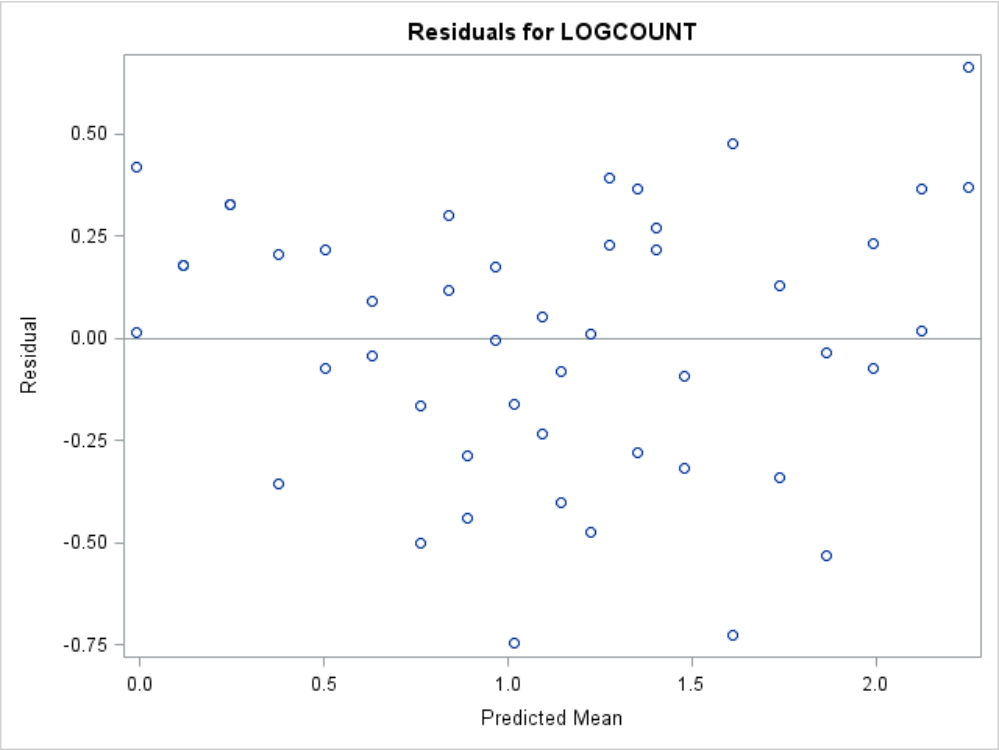
Parameter Estimates

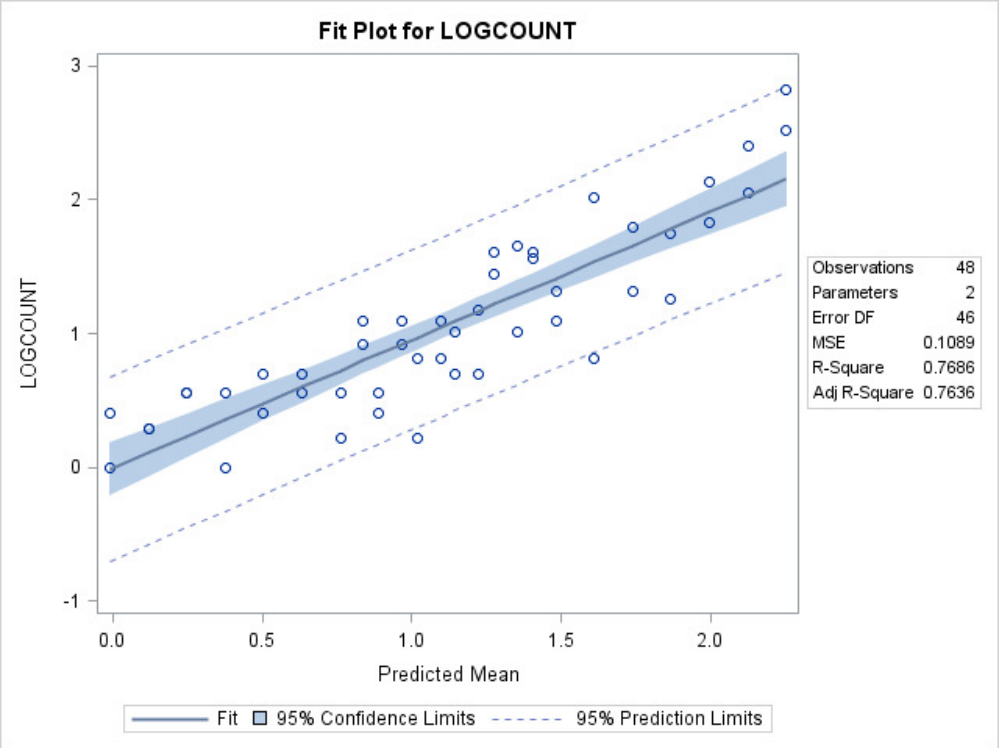
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	-0.00488	0.09910	-0.05	0.9609
Pred	Predicted Mean	1	0.95859	0.07755	12.36	<.0001

The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: LOGCOUNT




Residuals for LOGCOUNT
Residual
0.50
0.25
0.00
-0.25
-0.50
-0.75
0.0
0.5
1.0
1.5
2.0
Predicted Mean


Fit Plot for LOGCOUNT
LOGCOUNT
3
2
1
0
-1
0.0
0.5
1.0
1.5
2.0
Predicted Mean
Observations 48
Parameters 2
Error DF 46
MSE 0.1089
R-Square 0.7686
Adj R-Square 0.7636
Fit
95% Confidence Limits
95% Prediction Limits