

The CONTENTS Procedure

Data Set Name	WORK.IMPORT	Observations	108
Member Type	DATA	Variables	48
Engine	V9	Indexes	0
Created	12/02/2025 10:45:22	Observation Length	392
Last Modified	12/02/2025 10:45:22	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	334
Obs in First Data Page	108
Number of Data Set Repairs	0
Filename	/saswork/SAS_workD61D0000A5D3_odaws02-usw2.oda.sas.com/SAS_work83280000A5D3_odaws02-usw2.oda.sas.com/import.sas7bdat
Release Created	9.0401M8
Host Created	Linux
Inode Number	3548534
Access Permission	rw-r--r--
Owner Name	u64132677
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Format	Informat	Label
25	apr	Num	8	BEST.		apr
29	aug	Num	8	BEST.		aug
21	beltlaw	Num	8	BEST.		beltlaw
47	beltt	Num	8	BEST.		beltt
15	cntyrds	Num	8	BEST.		cntyrds
33	dec	Num	8	BEST.		dec
3	fatacc	Num	8	BEST.		fatacc
23	feb	Num	8	BEST.		feb
4	injacc	Num	8	BEST.		injacc
28	jul	Num	8	BEST.		jul
27	jun	Num	8	BEST.		jun
44	lcntyrds	Num	8	BEST.		lcntyrds
35	lfatacc	Num	8	BEST.		lfatacc
41	lfatacc	Num	8	BEST.		lfatacc
40	Intotacc	Num	8	BEST.		Intotacc
39	lrfatacc	Num	8	BEST.		lrfatacc
38	lrtotacc	Num	8	BEST.		lrtotacc

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Format	Informat	Label
45	lstrtes	Num	8	BEST.		lstrtes
34	ltotacc	Num	8	BEST.		ltotacc
43	lushigh	Num	8	BEST.		lushigh
24	mar	Num	8	BEST.		mar
26	may	Num	8	BEST.		may
7	nfatacc	Num	8	BEST.		nfatacc
8	ninjacc	Num	8	BEST.		ninjacc
32	nov	Num	8	BEST.		nov
9	npdoacc	Num	8	BEST.		npdoacc
6	ntotacc	Num	8	BEST.		ntotacc
31	oct	Num	8	BEST.		oct
5	pdoacc	Num	8	BEST.		pdoacc
36	prcfat	Num	8	BEST.		prcfat
48	prcfat_1	Char	9	\$9.	\$9.	prcfat_1
42	prcnfat	Num	8	BEST.		prcnfat
37	prcrfat	Num	8	BEST.		prcrfat
11	rfatacc	Num	8	BEST.		rfatacc
12	rinjacc	Num	8	BEST.		rinjacc
13	rpdoacc	Num	8	BEST.		rpdoacc
10	rtotacc	Num	8	BEST.		rtotacc
30	sep	Num	8	BEST.		sep
20	spdlaw	Num	8	BEST.		spdlaw
46	spdt	Num	8	BEST.		spdt
16	strtes	Num	8	BEST.		strtes
17	t	Num	8	BEST.		t
2	totacc	Num	8	BEST.		totacc
18	tsq	Num	8	BEST.		tsq
19	unem	Num	8	BEST.		unem
14	ushigh	Num	8	BEST.		ushigh
22	wkends	Num	8	BEST.		wkends
1	year	Num	8	BEST.		year

Check Dates for Speed Law and Seatbelt Law Implementation (Part i)

Obs	year	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	spdlaw	beltlaw
61	1986	0	0	0	0	0	0	0	0	0	0	0	0	1
62	1986	1	0	0	0	0	0	0	0	0	0	0	0	1
63	1986	0	1	0	0	0	0	0	0	0	0	0	0	1
64	1986	0	0	1	0	0	0	0	0	0	0	0	0	1
65	1986	0	0	0	1	0	0	0	0	0	0	0	0	1
66	1986	0	0	0	0	1	0	0	0	0	0	0	0	1
67	1986	0	0	0	0	0	1	0	0	0	0	0	0	1
68	1986	0	0	0	0	0	0	1	0	0	0	0	0	1
69	1986	0	0	0	0	0	0	0	1	0	0	0	0	1
70	1986	0	0	0	0	0	0	0	0	1	0	0	0	1
71	1986	0	0	0	0	0	0	0	0	0	1	0	0	1
72	1986	0	0	0	0	0	0	0	0	0	0	1	0	1

Obs	year	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	spdlaw	beltlaw
73	1987	0	0	0	0	0	0	0	0	0	0	0	0	1
74	1987	1	0	0	0	0	0	0	0	0	0	0	0	1
75	1987	0	1	0	0	0	0	0	0	0	0	0	0	1
76	1987	0	0	1	0	0	0	0	0	0	0	0	0	1
77	1987	0	0	0	1	0	0	0	0	0	0	0	1	1
78	1987	0	0	0	0	1	0	0	0	0	0	0	1	1
79	1987	0	0	0	0	0	1	0	0	0	0	0	1	1
80	1987	0	0	0	0	0	0	1	0	0	0	0	1	1
81	1987	0	0	0	0	0	0	0	1	0	0	0	1	1
82	1987	0	0	0	0	0	0	0	0	1	0	0	1	1
83	1987	0	0	0	0	0	0	0	0	0	1	0	1	1
84	1987	0	0	0	0	0	0	0	0	0	0	1	1	1
85	1988	0	0	0	0	0	0	0	0	0	0	0	1	1
86	1988	1	0	0	0	0	0	0	0	0	0	0	1	1
87	1988	0	1	0	0	0	0	0	0	0	0	0	1	1
88	1988	0	0	1	0	0	0	0	0	0	0	0	1	1
89	1988	0	0	0	1	0	0	0	0	0	0	0	1	1
90	1988	0	0	0	0	1	0	0	0	0	0	0	1	1
91	1988	0	0	0	0	0	1	0	0	0	0	0	1	1
92	1988	0	0	0	0	0	0	1	0	0	0	0	1	1
93	1988	0	0	0	0	0	0	0	1	0	0	0	1	1
94	1988	0	0	0	0	0	0	0	0	1	0	0	1	1
95	1988	0	0	0	0	0	0	0	0	0	1	0	1	1
96	1988	0	0	0	0	0	0	0	0	0	0	1	1	1
97	1989	0	0	0	0	0	0	0	0	0	0	0	1	1
98	1989	1	0	0	0	0	0	0	0	0	0	0	1	1
99	1989	0	1	0	0	0	0	0	0	0	0	0	1	1
100	1989	0	0	1	0	0	0	0	0	0	0	0	1	1
101	1989	0	0	0	1	0	0	0	0	0	0	0	1	1
102	1989	0	0	0	0	1	0	0	0	0	0	0	1	1
103	1989	0	0	0	0	0	1	0	0	0	0	0	1	1
104	1989	0	0	0	0	0	0	1	0	0	0	0	1	1
105	1989	0	0	0	0	0	0	0	1	0	0	0	1	1
106	1989	0	0	0	0	0	0	0	0	1	0	0	1	1
107	1989	0	0	0	0	0	0	0	0	0	1	0	1	1
108	1989	0	0	0	0	0	0	0	0	0	0	1	1	1

Average of prcfat (Percentage of Fatal Accidents) (Part v)

The MEANS Procedure

Analysis Variable : prcfat prcfat				
N	Mean	Std Dev	Minimum	Maximum
108	0.8856363	0.0997777	0.7016841	1.2168280

Regression 1: Log(Total Accidents) on Time Trend and Monthly Dummies (January Base) (Part ii)

The REG Procedure Model: MODEL1

Dependent Variable: Itotacc Itotacc

Number of Observations Read	108
Number of Observations Used	108

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	1.00244	0.08354	31.06	<.0001
Error	95	0.25550	0.00269		
Corrected Total	107	1.25794			

Root MSE	0.05186	R-Square	0.7969
Dependent Mean	10.65923	Adj R-Sq	0.7712
Coeff Var	0.48653		

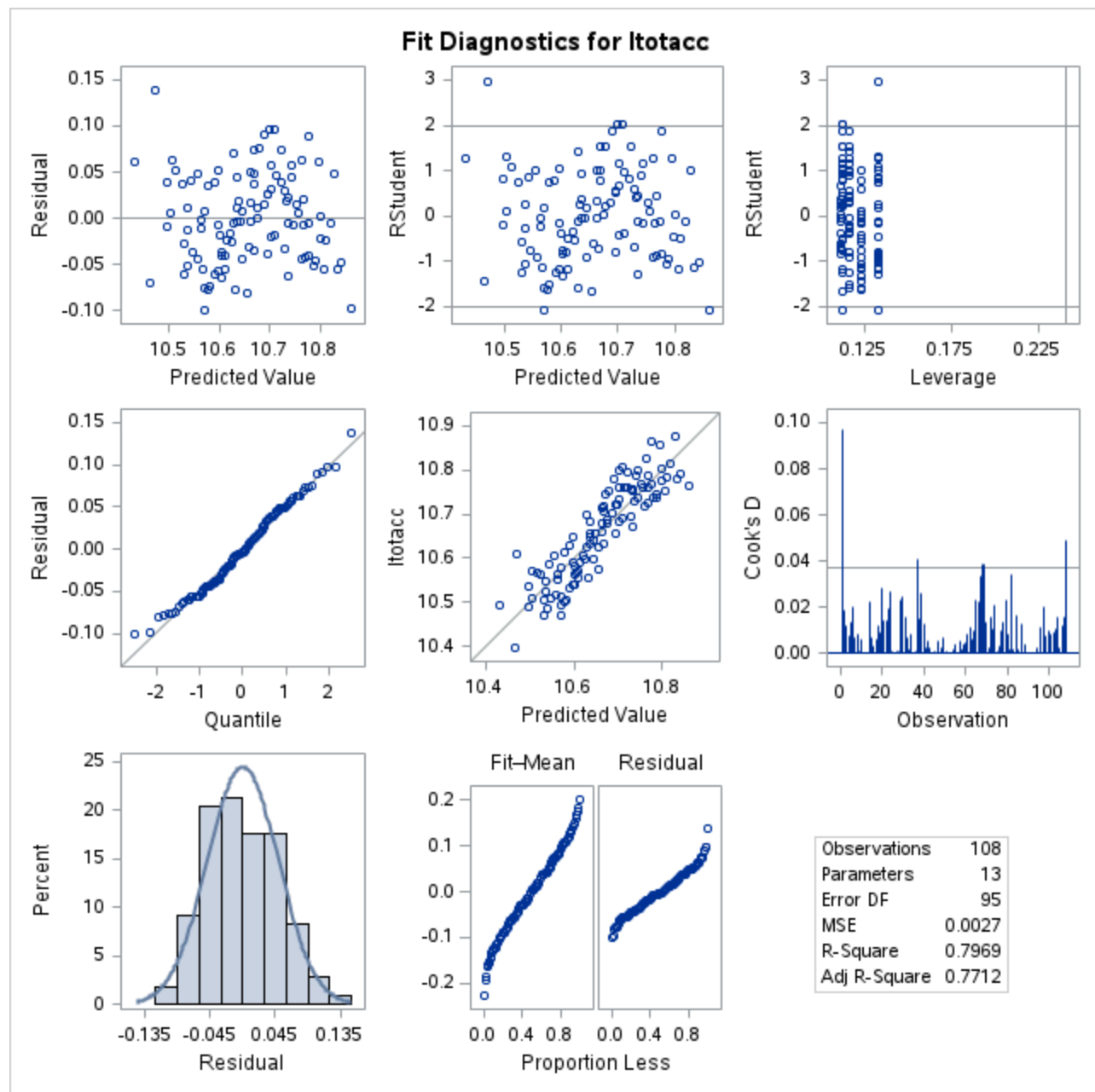
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	10.46856	0.01900	550.89	<.0001
t	t	1	0.00275	0.00016106	17.06	<.0001
feb	feb	1	-0.04268	0.02445	-1.75	0.0841
mar	mar	1	0.07983	0.02445	3.27	0.0015
apr	apr	1	0.01849	0.02445	0.76	0.4515
may	may	1	0.03210	0.02446	1.31	0.1925
jun	jun	1	0.02019	0.02446	0.83	0.4111
jul	jul	1	0.03758	0.02447	1.54	0.1278
aug	aug	1	0.05399	0.02447	2.21	0.0298
sep	sep	1	0.04236	0.02448	1.73	0.0868
oct	oct	1	0.08211	0.02449	3.35	0.0011
nov	nov	1	0.07128	0.02450	2.91	0.0045
dec	dec	1	0.09616	0.02451	3.92	0.0002

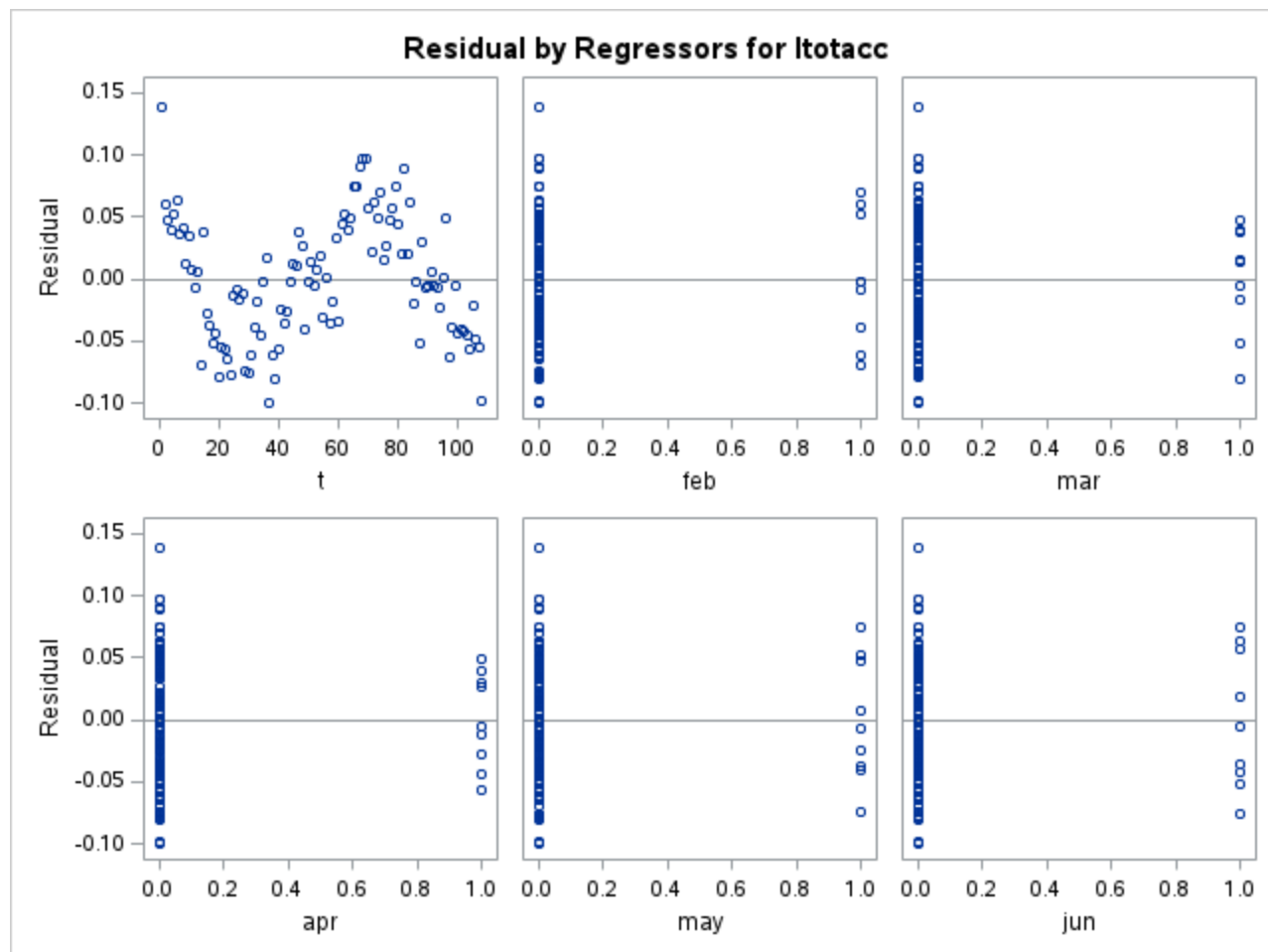
Regression 1: Log(Total Accidents) on Time Trend and Monthly Dummies (January Base) (Part ii)

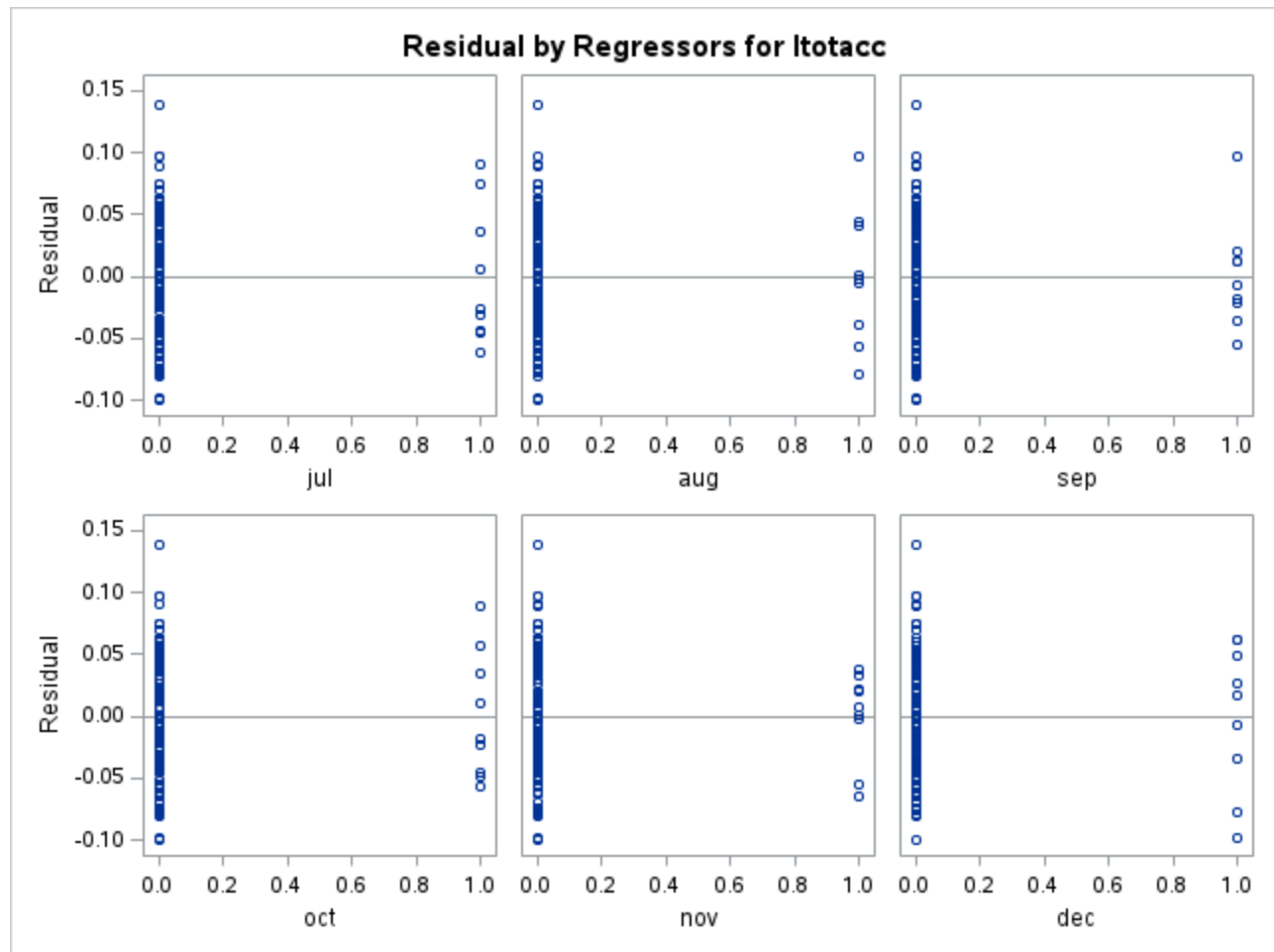
The REG Procedure

Model: MODEL1

Dependent Variable: Itotacc Itotacc







Regression 2: Full Model for Log(Total Accidents) (Part iii and iv)

The REG Procedure
Model: MODEL1
Dependent Variable: Itotacc Itotacc

Number of Observations Read	108
Number of Observations Used	108

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	1.14491	0.07156	57.61	<.0001
Error	91	0.11303	0.00124		
Corrected Total	107	1.25794			

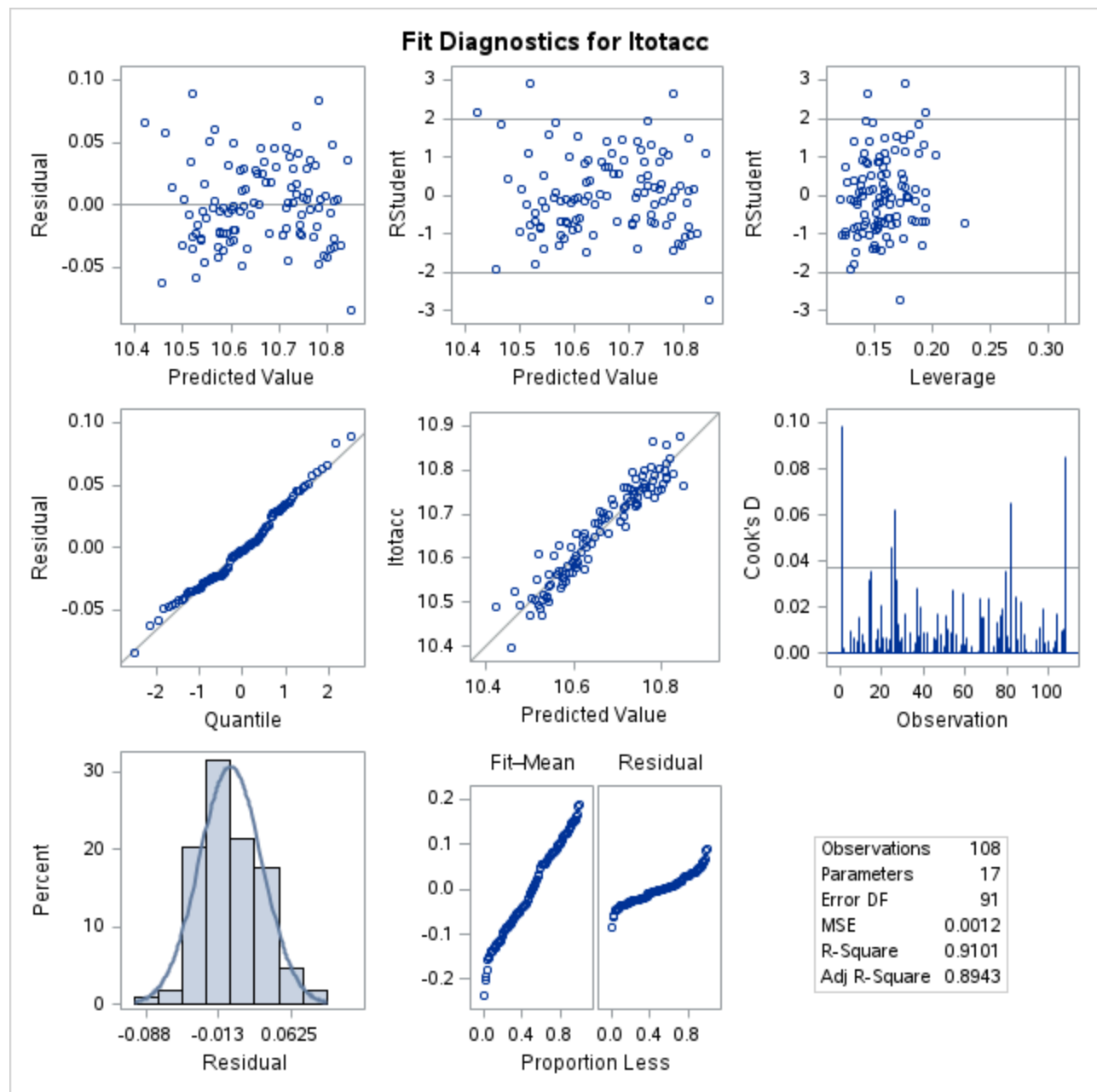
Root MSE	0.03524	R-Square	0.9101
Dependent Mean	10.65923	Adj R-Sq	0.8943
Coeff Var	0.33064		

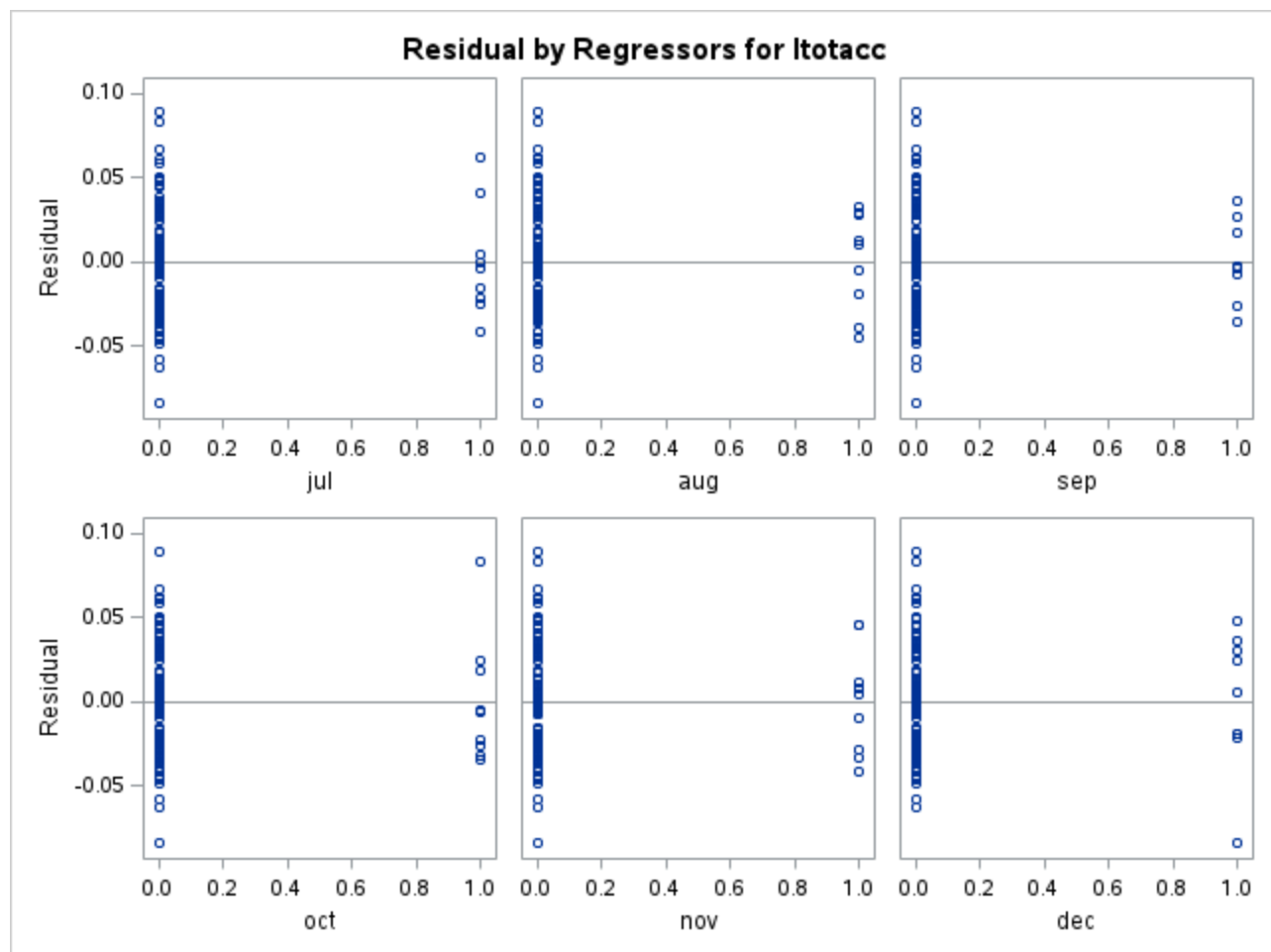
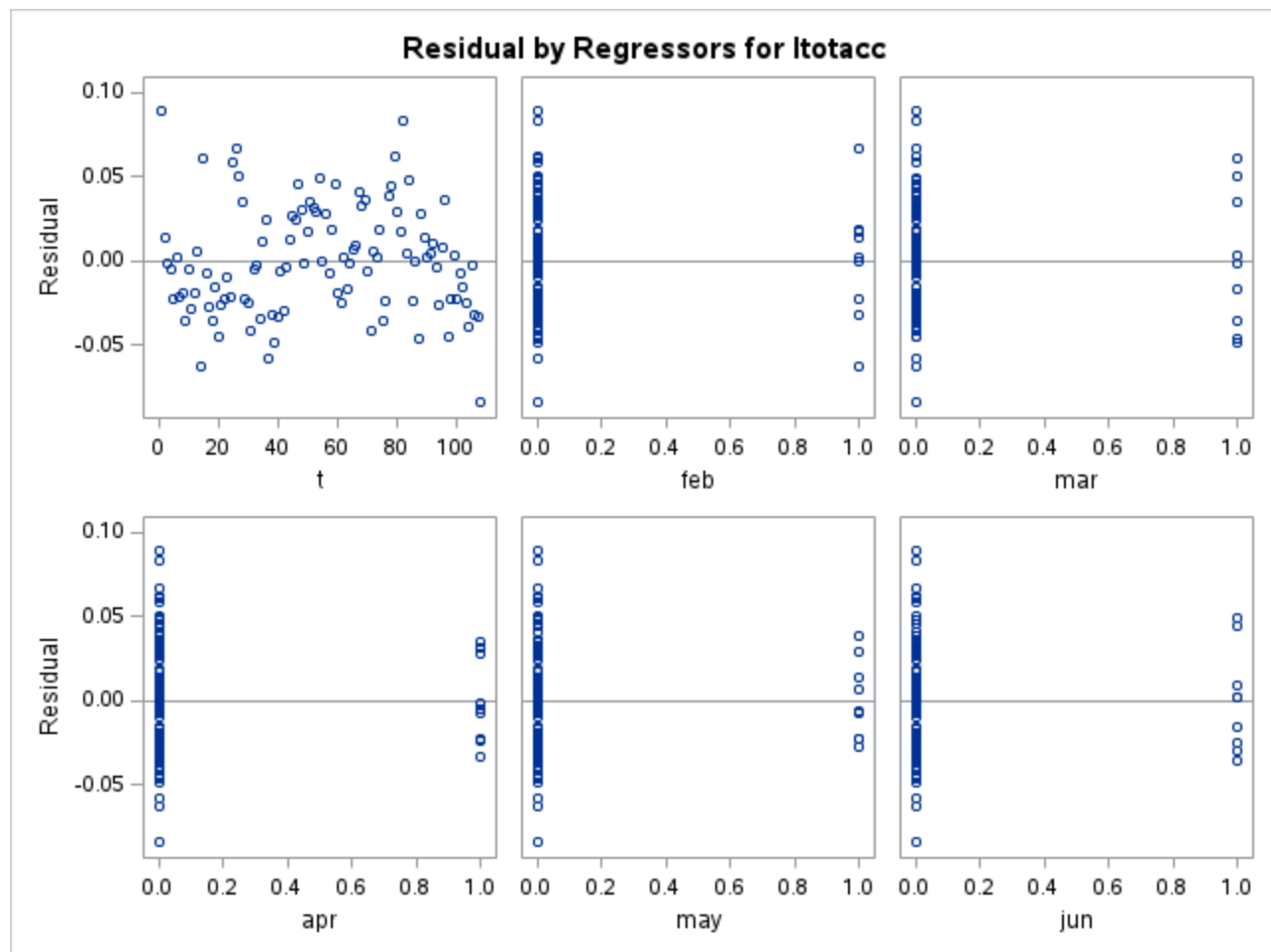
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	10.63987	0.06309	168.66	<.0001

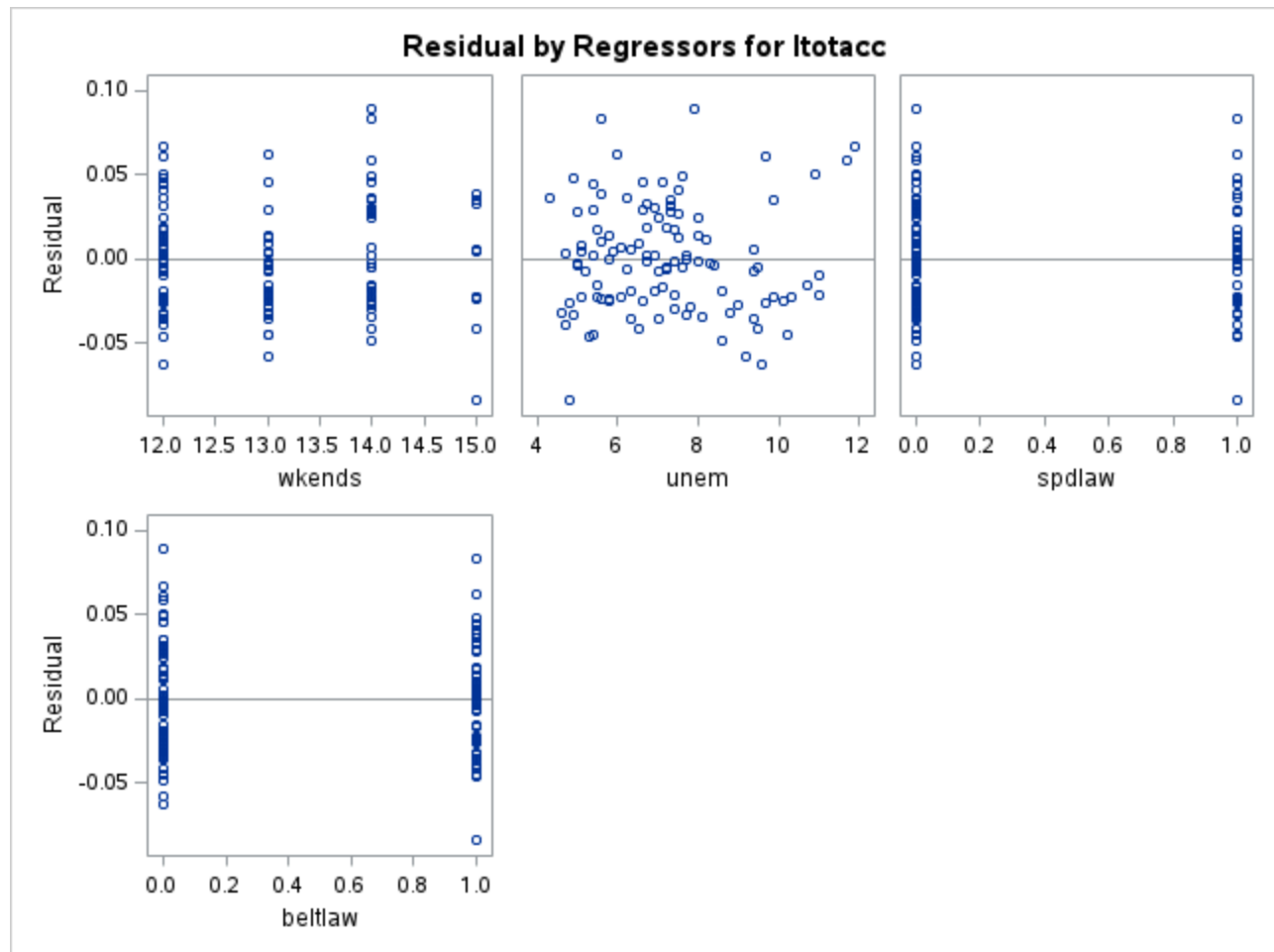
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
t	t	1	0.00110	0.00025787	4.27	<.0001
feb	feb	1	-0.03383	0.01777	-1.90	0.0601
mar	mar	1	0.07696	0.01679	4.58	<.0001
apr	apr	1	0.01046	0.01705	0.61	0.5411
may	may	1	0.02371	0.01694	1.40	0.1650
jun	jun	1	0.02194	0.01722	1.27	0.2058
jul	jul	1	0.04993	0.01670	2.99	0.0036
aug	aug	1	0.05596	0.01682	3.33	0.0013
sep	sep	1	0.04207	0.01728	2.43	0.0169
oct	oct	1	0.08172	0.01696	4.82	<.0001
nov	nov	1	0.07687	0.01725	4.46	<.0001
dec	dec	1	0.09909	0.01707	5.80	<.0001
wkends	wkends	1	0.00333	0.00378	0.88	0.3797
unem	unem	1	-0.02122	0.00340	-6.25	<.0001
spdlaw	spdlaw	1	-0.05376	0.01260	-4.27	<.0001
beltlaw	beltlaw	1	0.09545	0.01424	6.71	<.0001

Regression 2: Full Model for Log(Total Accidents) (Part iii and iv)

The REG Procedure
 Model: MODEL1
 Dependent Variable: Itotacc Itotacc







Regression 3: Percentage Fatal Accidents (prcfat) with AR(1) Test (Part v)

The REG Procedure

Model: MODEL1

Dependent Variable: prcfat prcfat

Number of Observations Read	108
Number of Observations Used	108

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	0.76423	0.04776	14.44	<.0001
Error	91	0.30102	0.00331		
Corrected Total	107	1.06525			

Root MSE	0.05751	R-Square	0.7174
Dependent Mean	0.88564	Adj R-Sq	0.6677
Coeff Var	6.49414		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	1.02980	0.10295	10.00	<.0001

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
t	t	1	-0.00224	0.00042083	-5.31	<.0001
feb	feb	1	0.00086074	0.02900	0.03	0.9764
mar	mar	1	0.00009226	0.02741	0.00	0.9973
apr	apr	1	0.05822	0.02782	2.09	0.0392
may	may	1	0.07164	0.02764	2.59	0.0111
jun	jun	1	0.10126	0.02809	3.60	0.0005
jul	jul	1	0.17661	0.02726	6.48	<.0001
aug	aug	1	0.19261	0.02744	7.02	<.0001
sep	sep	1	0.16002	0.02820	5.67	<.0001
oct	oct	1	0.10104	0.02767	3.65	0.0004
nov	nov	1	0.01395	0.02814	0.50	0.6213
dec	dec	1	0.00920	0.02786	0.33	0.7420
wkends	wkends	1	0.00062586	0.00616	0.10	0.9193
unem	unem	1	-0.01543	0.00554	-2.78	0.0066
spdlaw	spdlaw	1	0.06709	0.02057	3.26	0.0016
beltlaw	beltlaw	1	-0.02951	0.02323	-1.27	0.2073

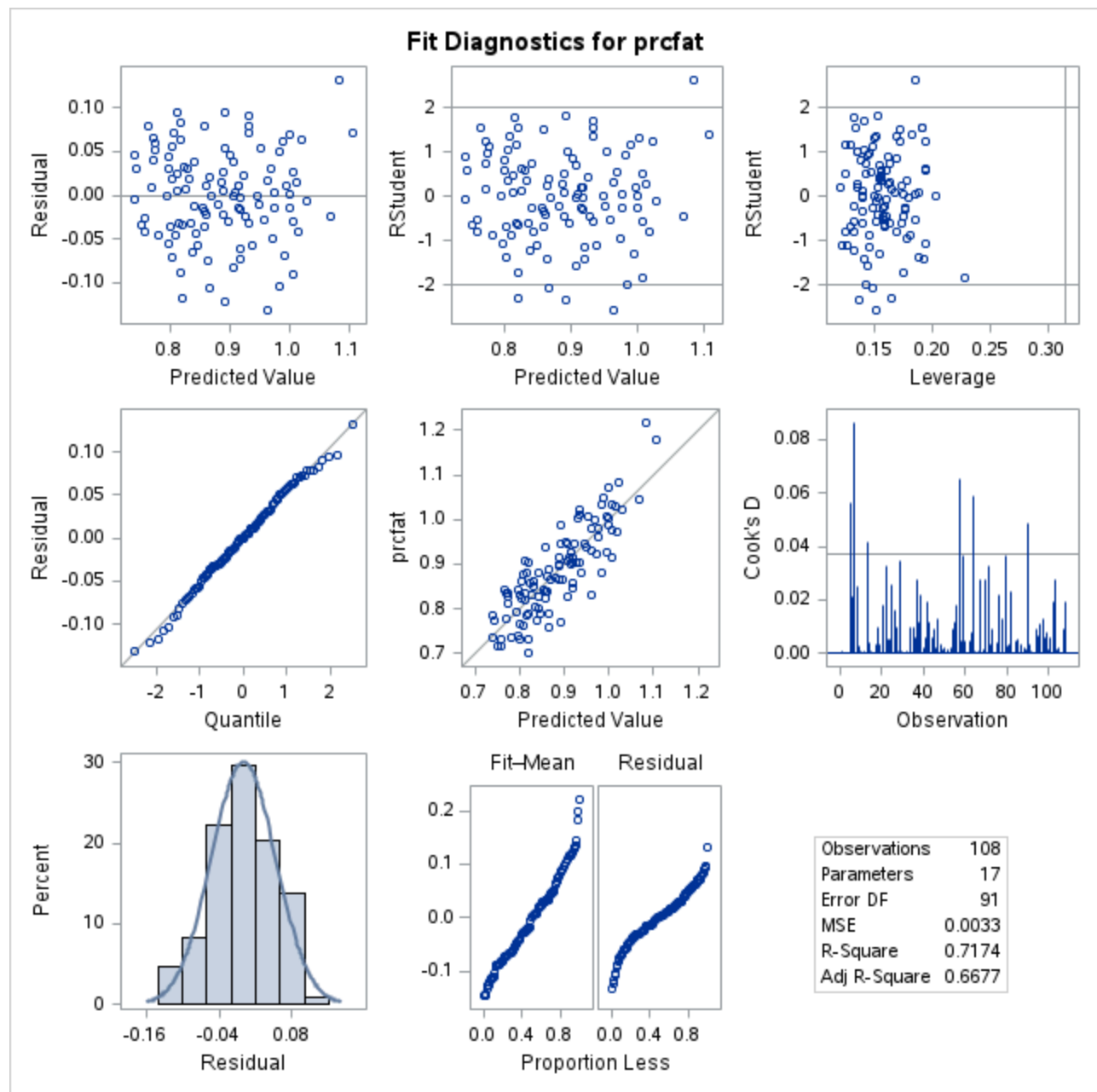
Regression 3: Percentage Fatal Accidents (prcfat) with AR(1) Test (Part v)

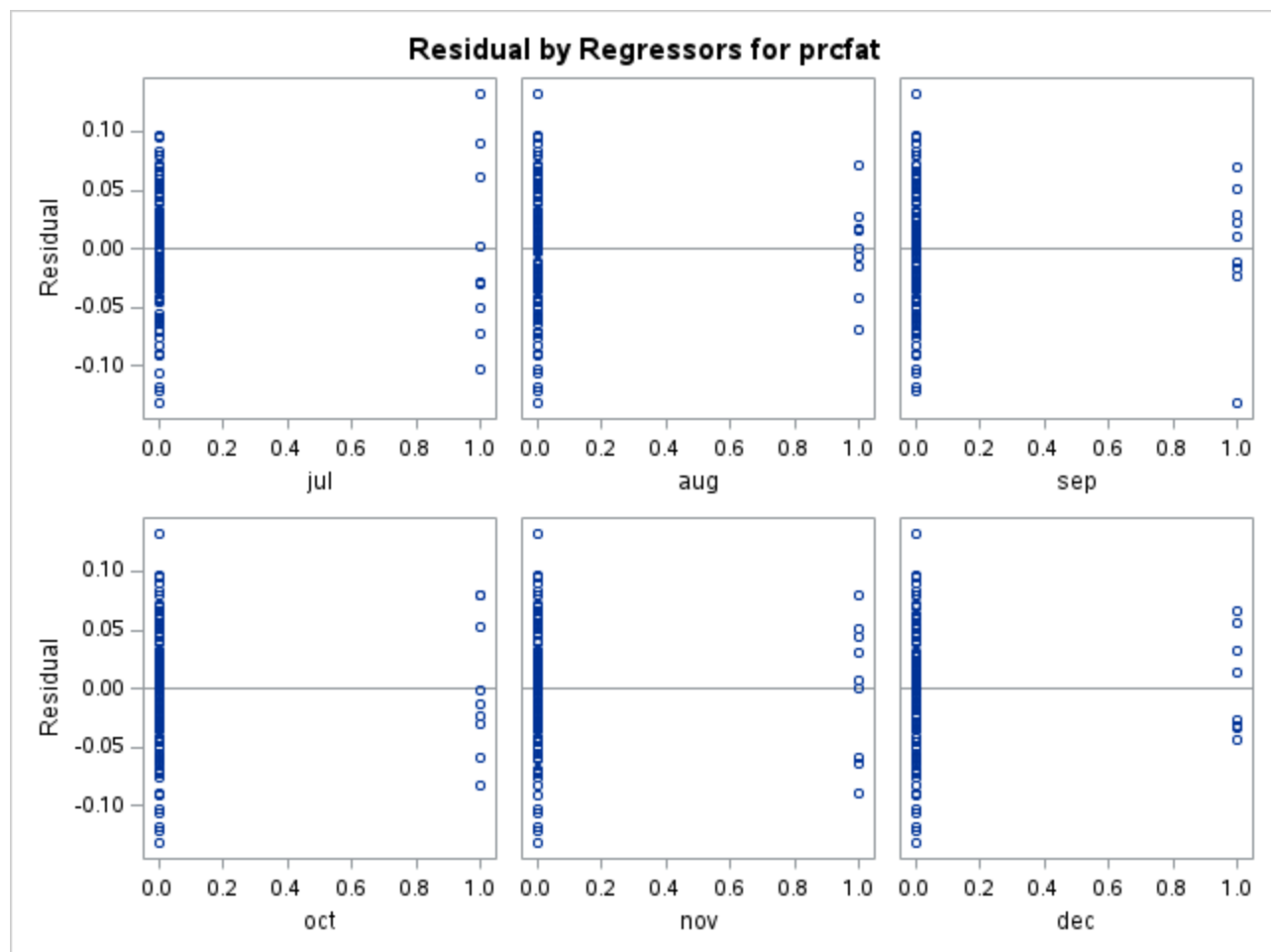
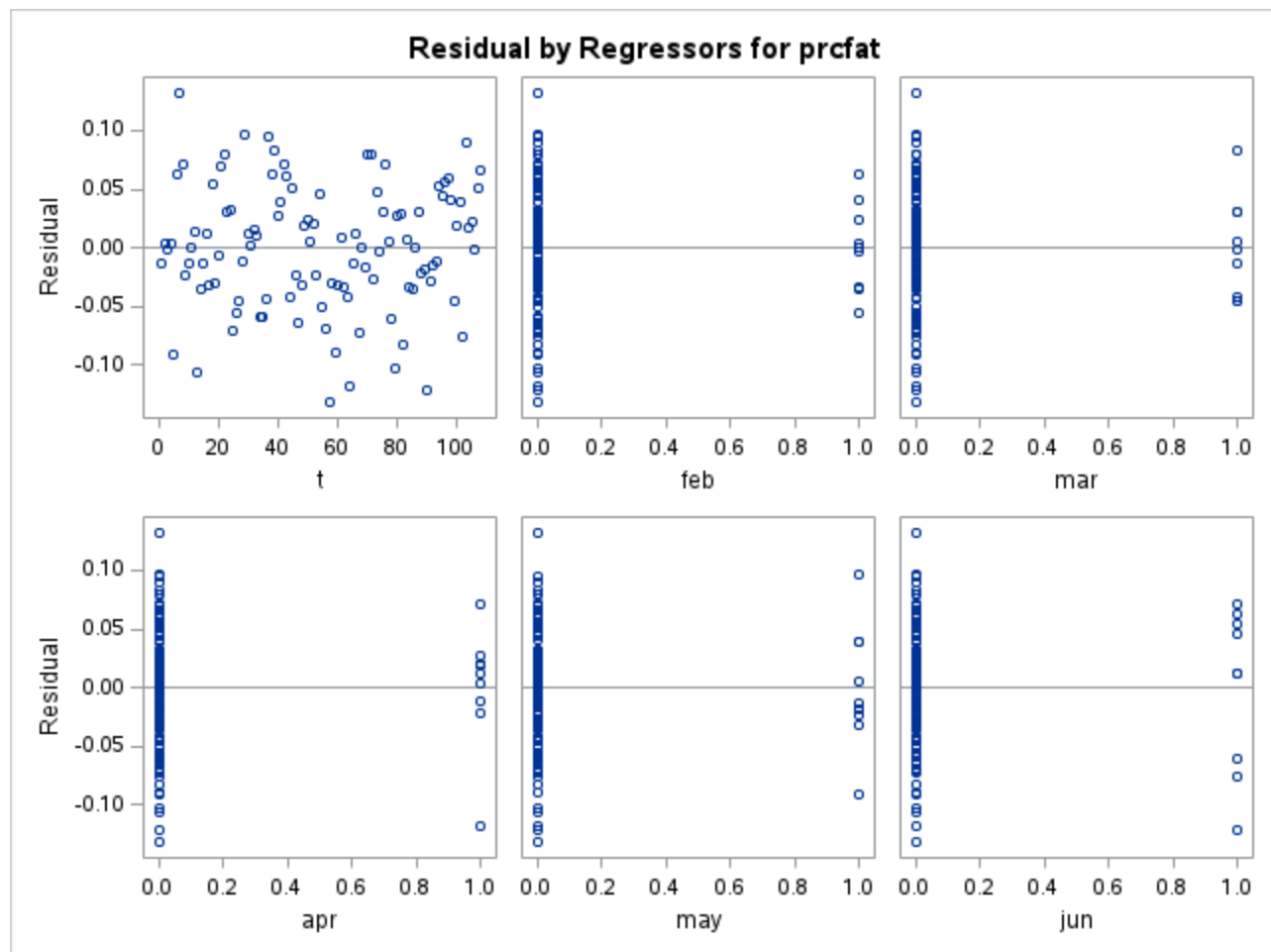
The REG Procedure
 Model: MODEL1
 Dependent Variable: prcfat prcfat

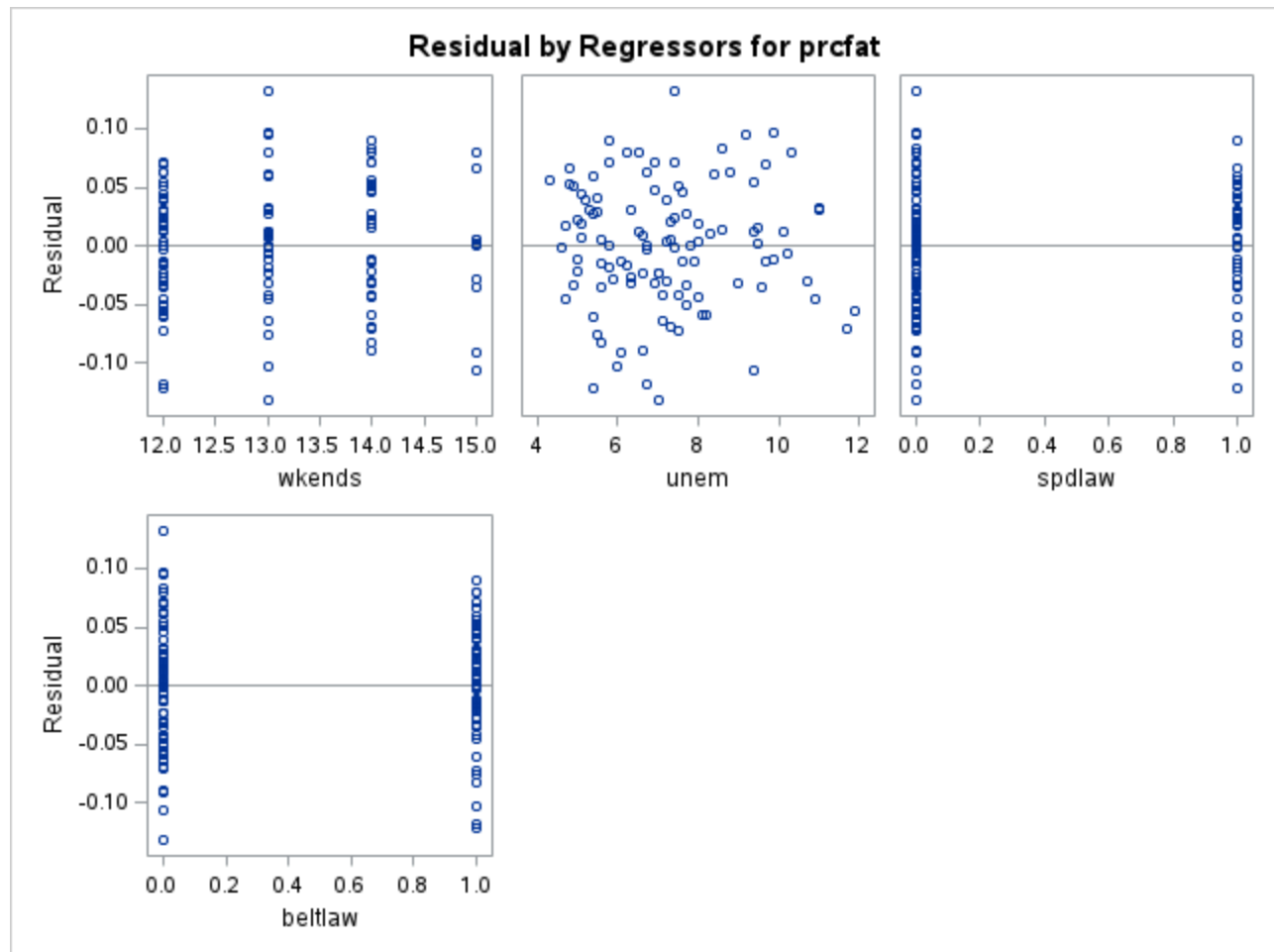
Durbin-Watson D	1.430
Number of Observations	108
1st Order Autocorrelation	0.278

Regression 3: Percentage Fatal Accidents (prcfat) with AR(1) Test (Part v)

The REG Procedure
 Model: MODEL1
 Dependent Variable: prcfat prcfat







Auxiliary Regression for Breusch-Pagan Test (Test for Heteroskedasticity) (Part vi)

The REG Procedure

Model: MODEL1

Dependent Variable: SQUARED_RESIDUALS

Number of Observations Read	108
Number of Observations Used	108

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	0.00003622	0.00000226	1.08	0.3896
Error	91	0.00019152	0.00000210		
Corrected Total	107	0.00022774			

Root MSE	0.00145	R-Square	0.1590
Dependent Mean	0.00105	Adj R-Sq	0.0112
Coeff Var	138.61606		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-0.00199	0.00260	-0.77	0.4459

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
t	t	1	-0.00000562	0.00001061	-0.53	0.5978
feb	feb	1	-0.00050910	0.00073140	-0.70	0.4882
mar	mar	1	-0.00031701	0.00069130	-0.46	0.6476
apr	apr	1	-0.00111	0.00070171	-1.59	0.1161
may	may	1	-0.00139	0.00069726	-1.99	0.0496
jun	jun	1	-0.00093296	0.00070863	-1.32	0.1913
jul	jul	1	-0.00105	0.00068758	-1.52	0.1319
aug	aug	1	-0.00113	0.00069226	-1.64	0.1045
sep	sep	1	-0.00124	0.00071138	-1.74	0.0852
oct	oct	1	-0.00057483	0.00069794	-0.82	0.4123
nov	nov	1	-0.00082747	0.00070988	-1.17	0.2468
dec	dec	1	-0.00028901	0.00070268	-0.41	0.6818
wkends	wkends	1	0.00019366	0.00015544	1.25	0.2160
unem	unem	1	0.00017802	0.00013985	1.27	0.2063
spdlaw	spdlaw	1	0.00110	0.00051881	2.12	0.0366
beltlaw	beltlaw	1	-0.00004072	0.00058596	-0.07	0.9447

Auxiliary Regression for Breusch-Pagan Test (Test for Heteroskedasticity) (Part vi)

The REG Procedure
 Model: MODEL1
 Dependent Variable: SQUARED_RESIDUALS

