

SLID data

Obs	age	sex	wages	yearsded	male	log2wages	g	obs
1	40	Male	10.56	15	1	3.40054	-13.3398	1
2	19	Male	11.00	13	1	3.45943	-13.4466	2
3	46	Male	17.76	14	1	4.15056	-13.2021	3
4	50	Female	14.00	16	0	3.80735	-13.7376	4
5	31	Male	8.20	15	1	3.03562	-12.4327	5
6	30	Female	16.97	13	0	4.08491	-13.3870	6
7	61	Female	6.70	12	0	2.74416	-11.5120	7
8	46	Female	14.00	14	0	3.80735	-13.7376	8
9	43	Male	19.20	18	1	4.26303	-12.7757	9
10	17	Male	7.25	11	1	2.85798	-11.8850	10

The MEANS Procedure

Analysis Variable : log2wages				
N	Mean	Std Dev	Minimum	Maximum
3997	3.7798515	0.7257487	1.2016339	5.6415460

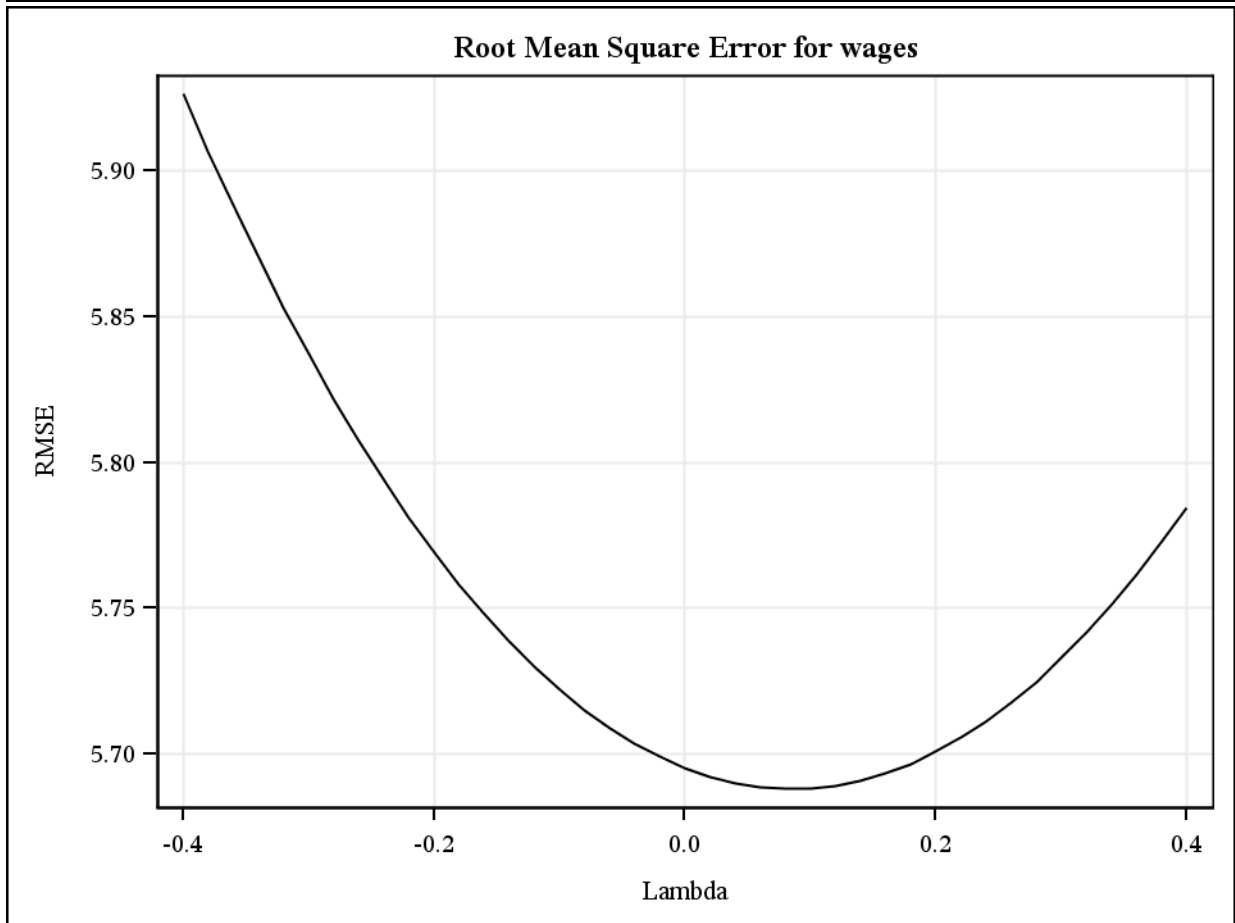
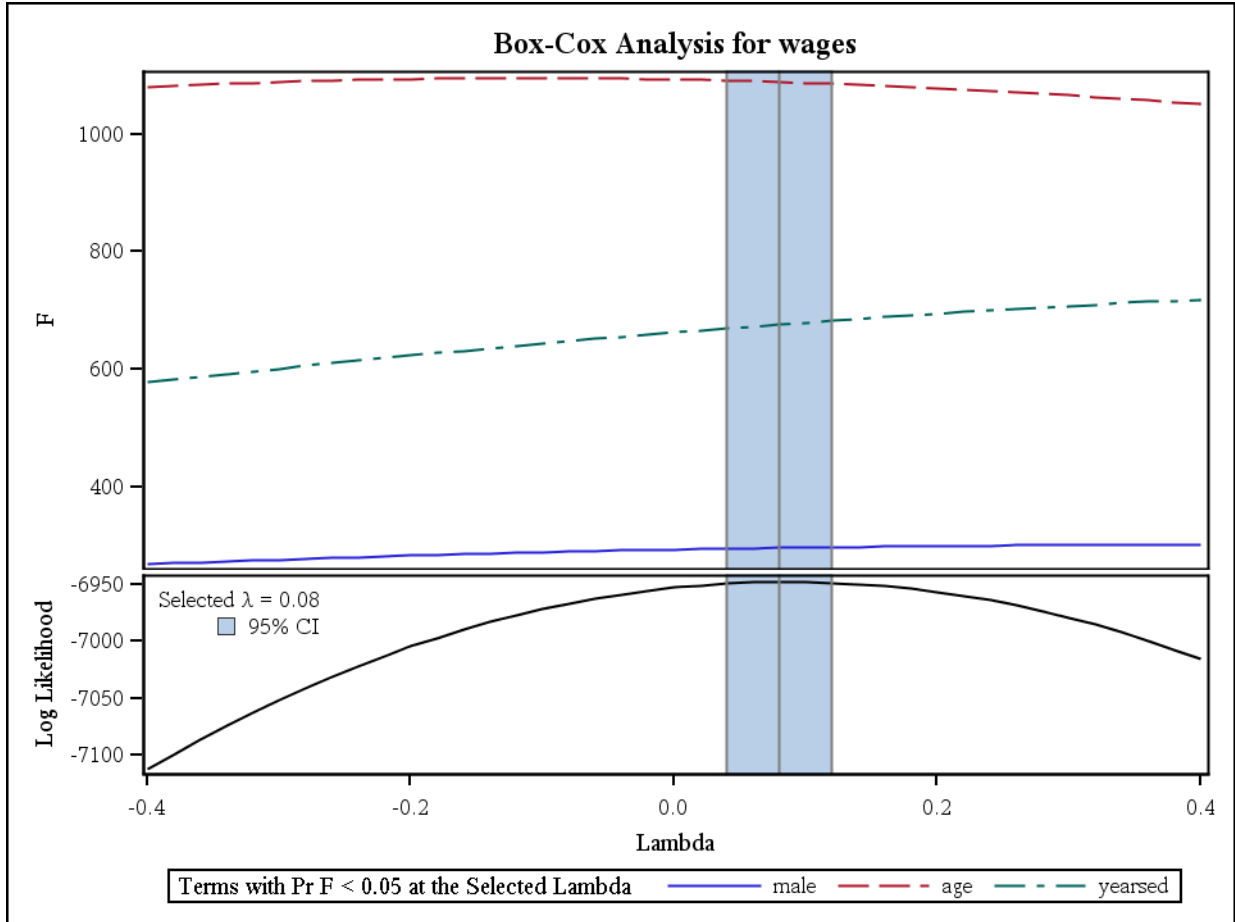
The TRANSREG Procedure

Box-Cox Transformation Information for wages				
Lambda		R-Square	Log Like	
-0.40		0.31	-7112.51	
-0.38		0.31	-7099.19	
-0.36		0.31	-7086.44	
-0.34		0.31	-7074.26	
-0.32		0.31	-7062.65	
-0.30		0.31	-7051.60	
-0.28		0.31	-7041.11	
-0.26		0.31	-7031.19	
-0.24		0.31	-7021.83	
-0.22		0.32	-7013.04	
-0.20		0.32	-7004.81	
-0.18		0.32	-6997.13	
-0.16		0.32	-6990.02	
-0.14		0.32	-6983.47	
-0.12		0.32	-6977.48	
-0.10		0.32	-6972.04	
-0.08		0.32	-6967.17	
-0.06		0.32	-6962.85	
-0.04		0.32	-6959.09	
-0.02		0.32	-6955.88	
0.00		0.32	-6953.22	
0.02		0.32	-6951.13	
0.04		0.32	-6949.58	*
0.06		0.32	-6948.59	*
0.08		0.32	-6948.15	<
0.10		0.32	-6948.26	*
0.12		0.32	-6948.92	*
0.14		0.32	-6950.13	
0.16		0.32	-6951.89	
0.18		0.32	-6954.20	
0.20		0.32	-6957.05	
< - Best Lambda * - 95% Confidence Interval + - Convenient Lambda				

The TRANSREG Procedure

Box-Cox Transformation Information for wages				
Lambda		R-Square	Log Like	
0.22		0.32	-6960.45	
0.24		0.32	-6964.40	
0.26		0.32	-6968.89	
0.28		0.32	-6973.92	
0.30		0.32	-6979.50	
0.32		0.32	-6985.62	
0.34		0.32	-6992.28	
0.36		0.32	-6999.48	
0.38		0.32	-7007.22	
0.40		0.32	-7015.49	
<p>< - Best Lambda * - 95% Confidence Interval + - Convenient Lambda</p>				

The TRANSREG Procedure



The TRANSREG Procedure

Dependent Variable BoxCox(wages)

Number of Observations Read	3997
Number of Observations Used	3997

The TRANSREG Procedure Hypothesis Tests for BoxCox(wages)

Univariate ANOVA Table Based on the Usual Degrees of Freedom					
Source	DF	Sum of Squares	Mean Square	F Value	Liberal p
Model	3	495.489	165.1629	633.36	>= <.0001
Error	3993	1041.265	0.2608		
Corrected Total	3996	1536.753			
The above statistics are not adjusted for the fact that the dependent variable was transformed and so are generally liberal.					

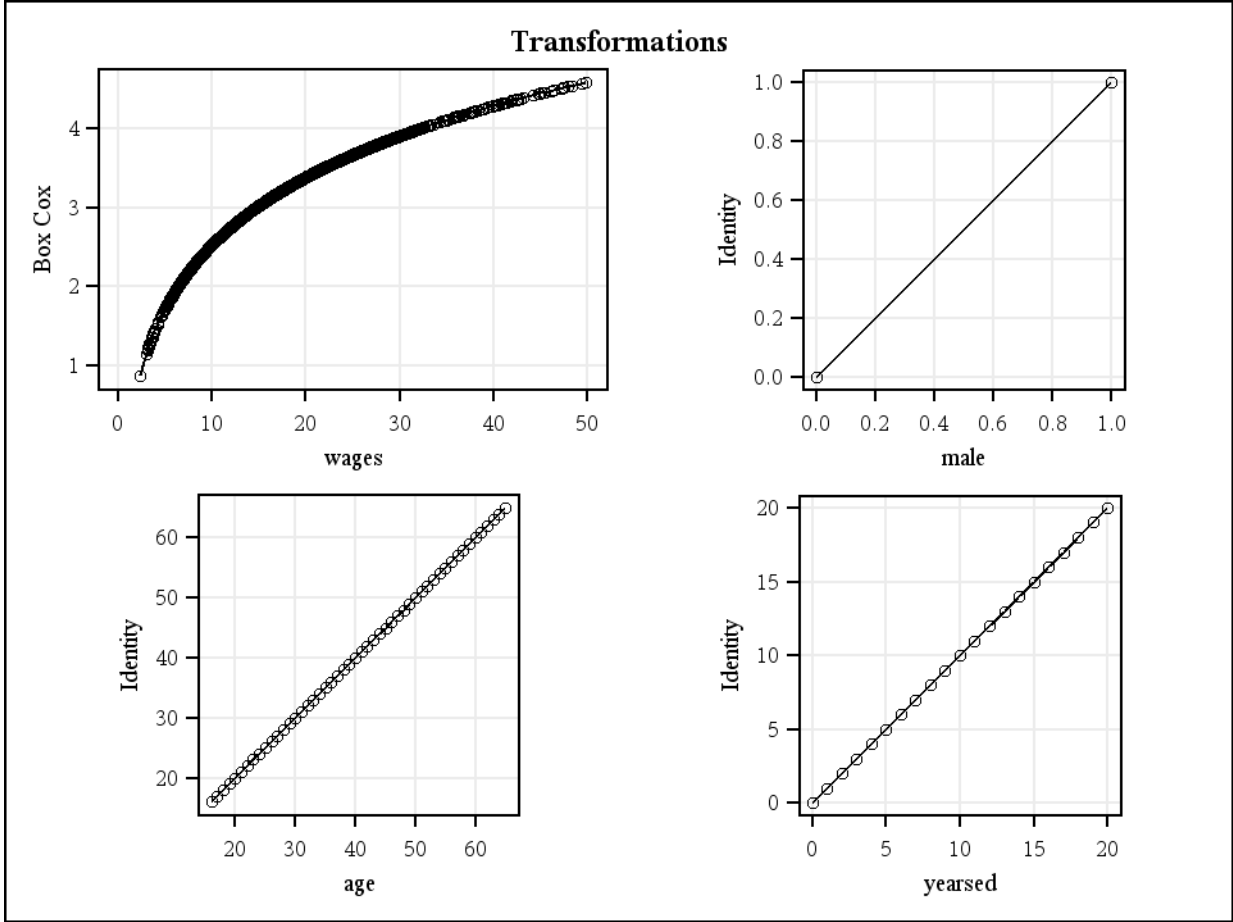
Root MSE	0.51066	R-Square	0.3224
Dependent Mean	2.92727	Adj R-Sq	0.3219
Coeff Var	17.44487	Lambda	0.0800

The TRANSREG Procedure

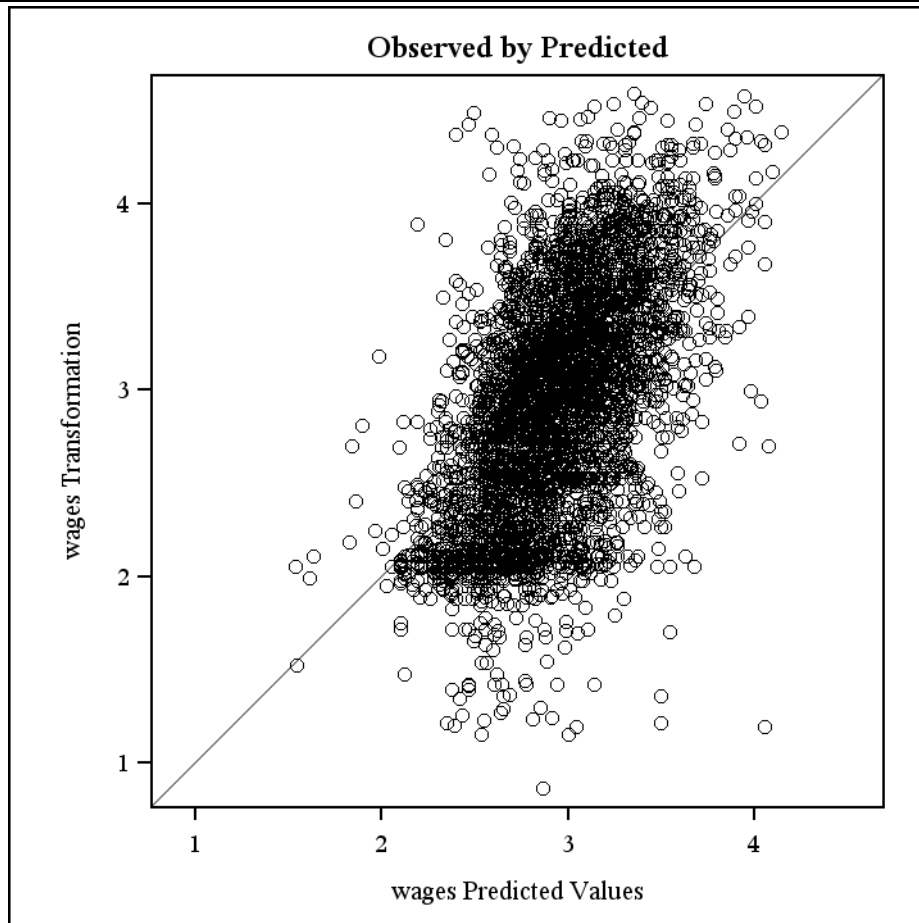
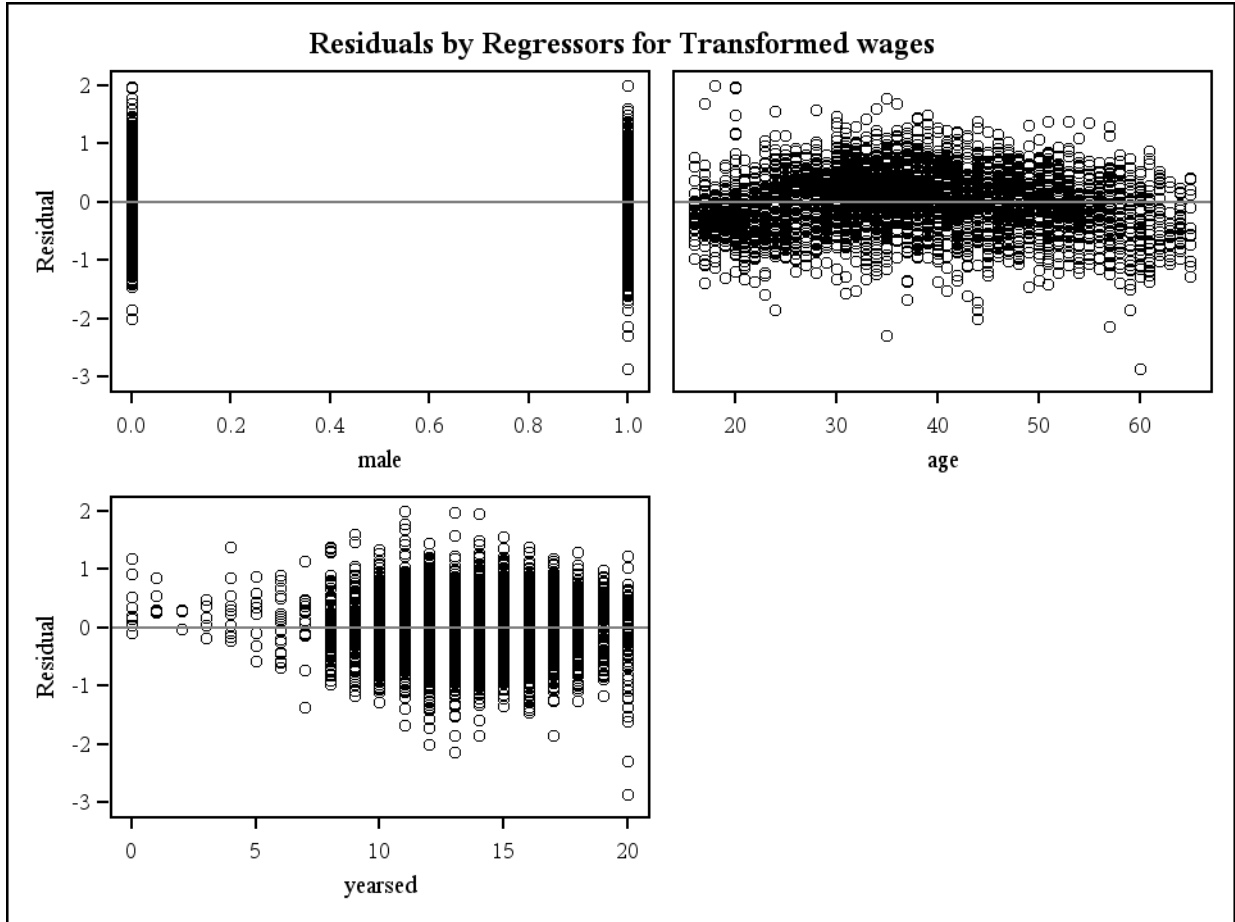
Univariate Regression Table Based on the Usual Degrees of Freedom						
Variable	DF	Coefficient	Type II Sum of Squares	Mean Square	F Value	Liberal p
Intercept	1	1.04549949	130.375	130.375	499.96	>= <.0001
Identity(male)	1	0.27788124	77.109	77.109	295.69	>= <.0001
Identity(age)	1	0.02231598	283.899	283.899	1088.68	>= <.0001
Identity(yearsed)	1	0.06953315	176.302	176.302	676.08	>= <.0001

The above statistics are not adjusted for the fact that the dependent variable was transformed and so are generally liberal.

The TRANSREG Procedure



The TRANSREG Procedure



The REG Procedure
Model: MODEL1
Dependent Variable: wages

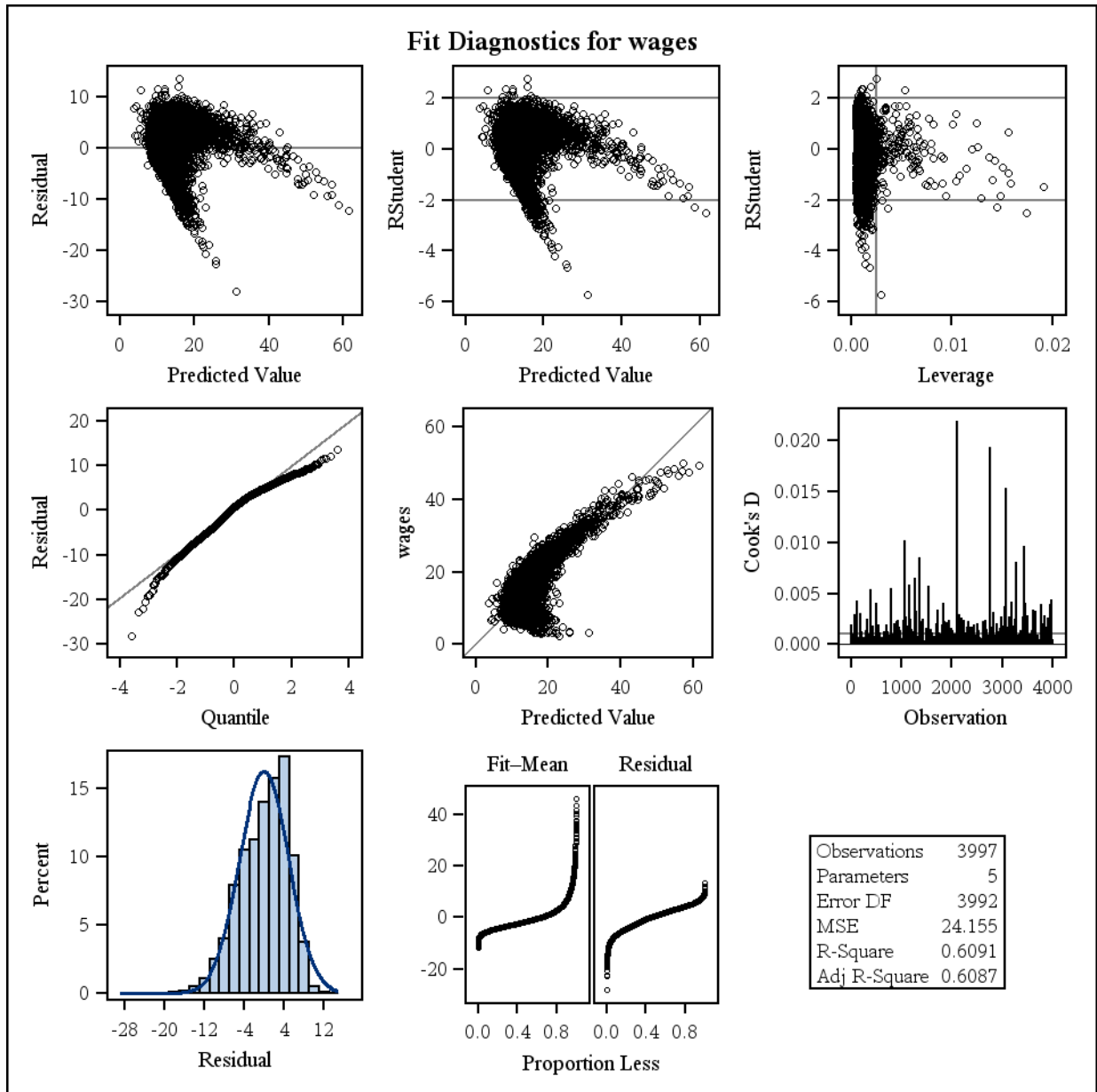
Number of Observations Read	3997
Number of Observations Used	3997

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	150269	37567	1555.23	<.0001
Error	3992	96428	24.15543		
Corrected Total	3996	246698			

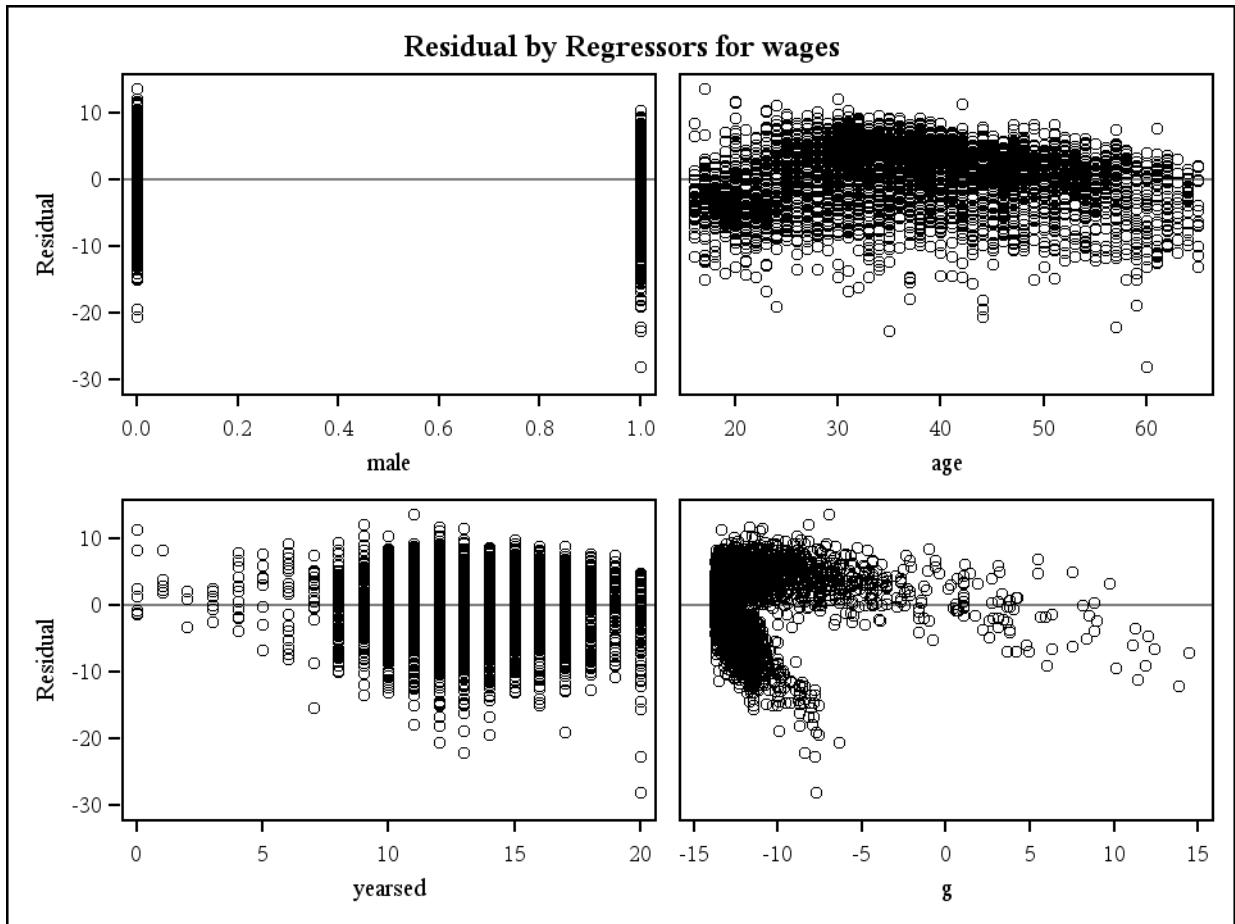
Root MSE	4.91482	R-Square	0.6091
Dependent Mean	15.54459	Adj R-Sq	0.6087
Coeff Var	31.61755		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	16.37543	0.63031	25.98	<.0001
male	1	2.46783	0.15658	15.76	<.0001
age	1	0.20751	0.00658	31.53	<.0001
yearsed	1	0.55821	0.02659	20.99	<.0001
g	1	1.45359	0.02618	55.51	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: wages



The REG Procedure
Model: MODEL1
Dependent Variable: wages



The REG Procedure
Model: MODEL1
Partial Regression Residual Plot

