

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

Number of Observations Read	10
Number of Observations Used	10

**Forward Selection: Step 1**

Variable ENROLLMENT Entered: R-Square = 0.5602 and C(p) = 7.7437

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	43.69702	43.69702	10.19	0.0128
Error	8	34.30298	4.28787		
Corrected Total	9	78.00000			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	1.53094	1.01341	9.78565	2.28	0.1693
ENROLLMENT	0.17763	0.05564	43.69702	10.19	0.0128

Bounds on condition number: 1, 1

**Forward Selection: Step 2**

Variable DOCTORATE Entered: R-Square = 0.7420 and C(p) = 4.0619

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	57.87812	28.93906	10.07	0.0087
Error	7	20.12188	2.87455		
Corrected Total	9	78.00000			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	1.18562	0.84419	5.66994	1.97	0.2030
ENROLLMENT	0.12297	0.05178	16.21145	5.64	0.0493
DOCTORATE	2.76277	1.24387	14.18110	4.93	0.0618

Bounds on condition number: 1.2918, 5.1671

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**Forward Selection: Step 3**

**Variable LOG\_AREA Entered: R-Square = 0.8375 and C(p) = 3.0771**

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	65.32805	21.77602	10.31	0.0088
Error	6	12.67195	2.11199		
Corrected Total	9	78.00000			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	-1.97983	1.83418	2.46073	1.17	0.3219
ENROLLMENT	0.10382	0.04554	10.97715	5.20	0.0628
DOCTORATE	3.55501	1.14660	20.30241	9.61	0.0211
LOG_AREA	0.73985	0.39393	7.44993	3.53	0.1094

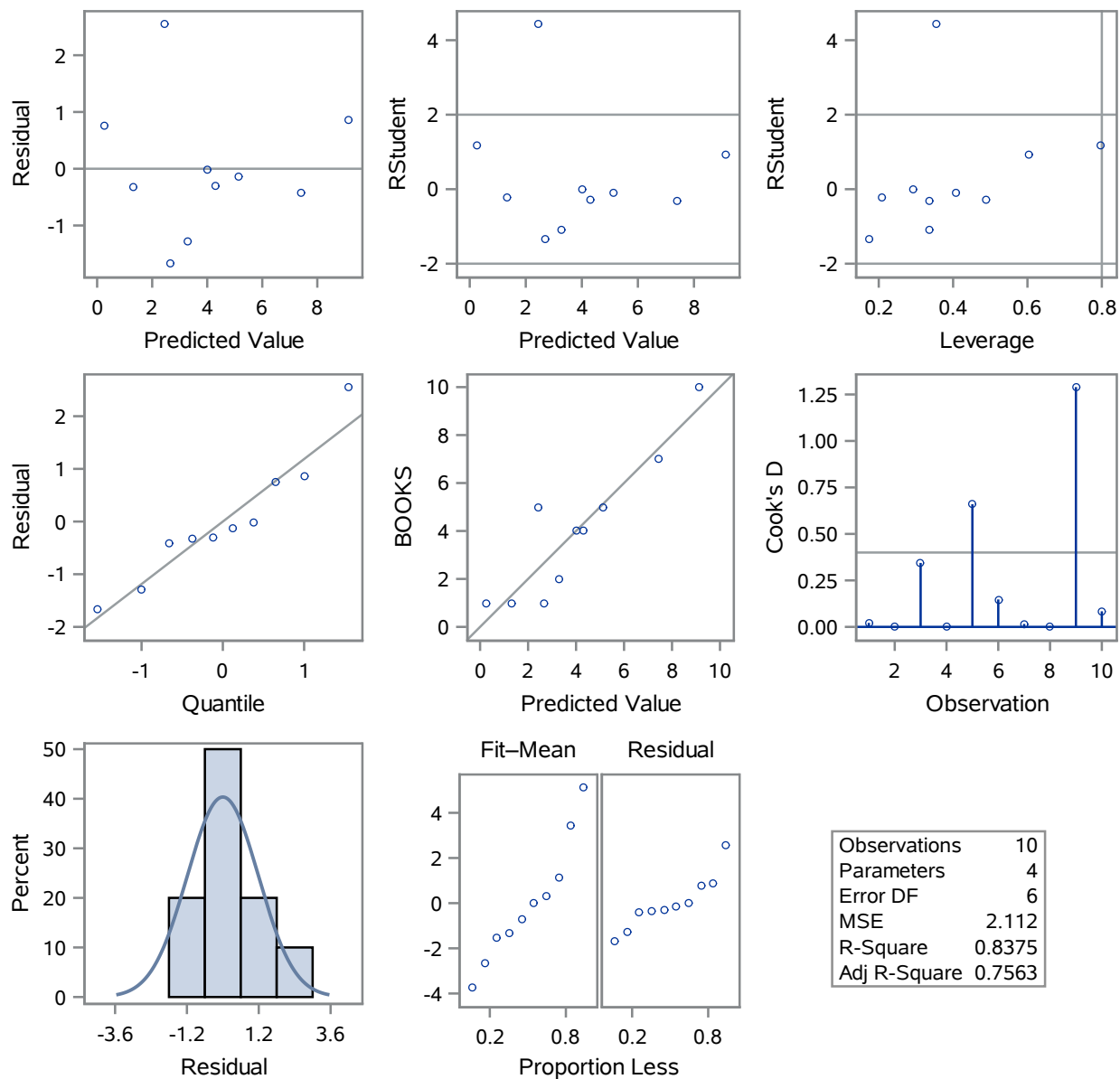
**Bounds on condition number: 1.494, 12.038**

**No other variable met the 0.5000 significance level for entry into the model.**

Summary of Forward Selection							
Step	Variable Entered	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	ENROLLMENT	1	0.5602	0.5602	7.7437	10.19	0.0128
2	DOCTORATE	2	0.1818	0.7420	4.0619	4.93	0.0618
3	LOG_AREA	3	0.0955	0.8375	3.0771	3.53	0.1094

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**Fit Diagnostics for BOOKS**



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