

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: SepalLength Sepal Length (mm)**

Number of Observations Read	150
Number of Observations Used	150

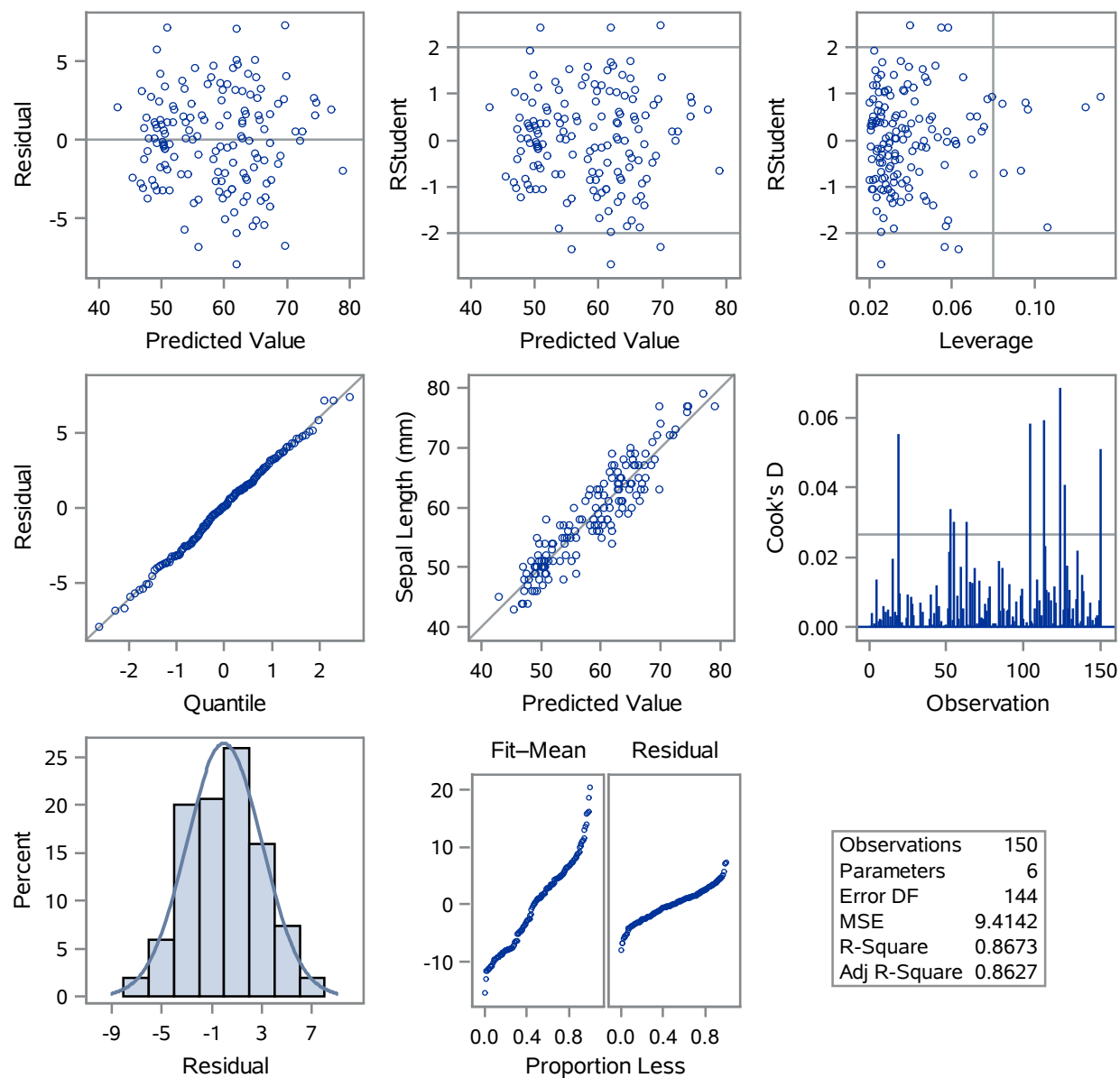
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	8861.18483	1772.23697	188.25	<.0001
Error	144	1355.64851	9.41423		
Corrected Total	149	10217			

Root MSE	3.06826	R-Square	0.8673
Dependent Mean	58.43333	Adj R-Sq	0.8627
Coeff Var	5.25087		

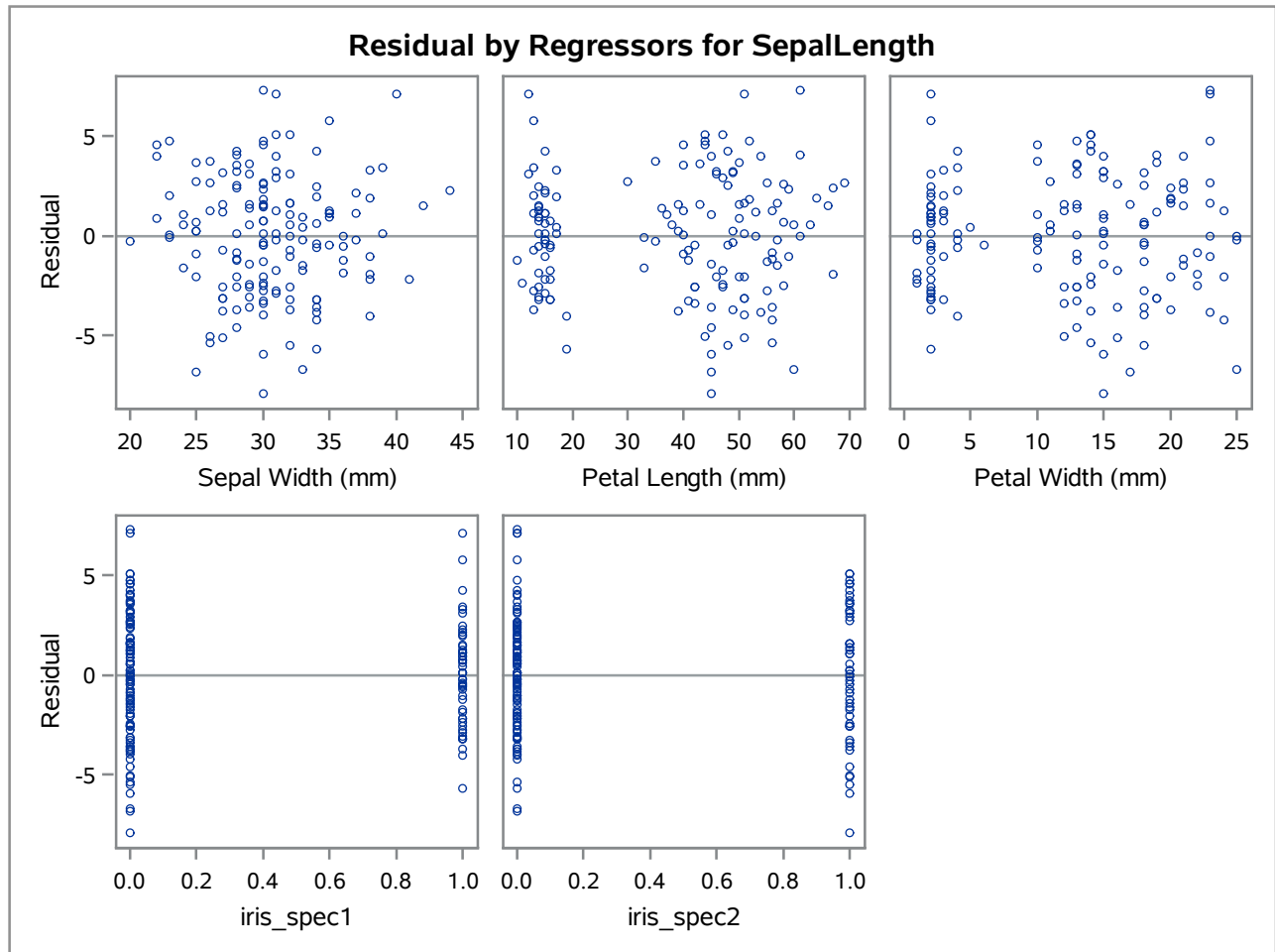
Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	11.47768	3.53563	3.25	0.0015	0
SepalWidth	Sepal Width (mm)	1	0.49589	0.08607	5.76	<.0001	2.22747
PetalLength	Petal Length (mm)	1	0.82924	0.06853	12.10	<.0001	23.16165
PetalWidth	Petal Width (mm)	1	-0.31516	0.15120	-2.08	0.0389	21.02140
iris_spec1		1	10.23498	3.33726	3.07	0.0026	39.43438
iris_spec2		1	2.99936	1.18983	2.52	0.0128	5.01260

The REG Procedure  
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Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength



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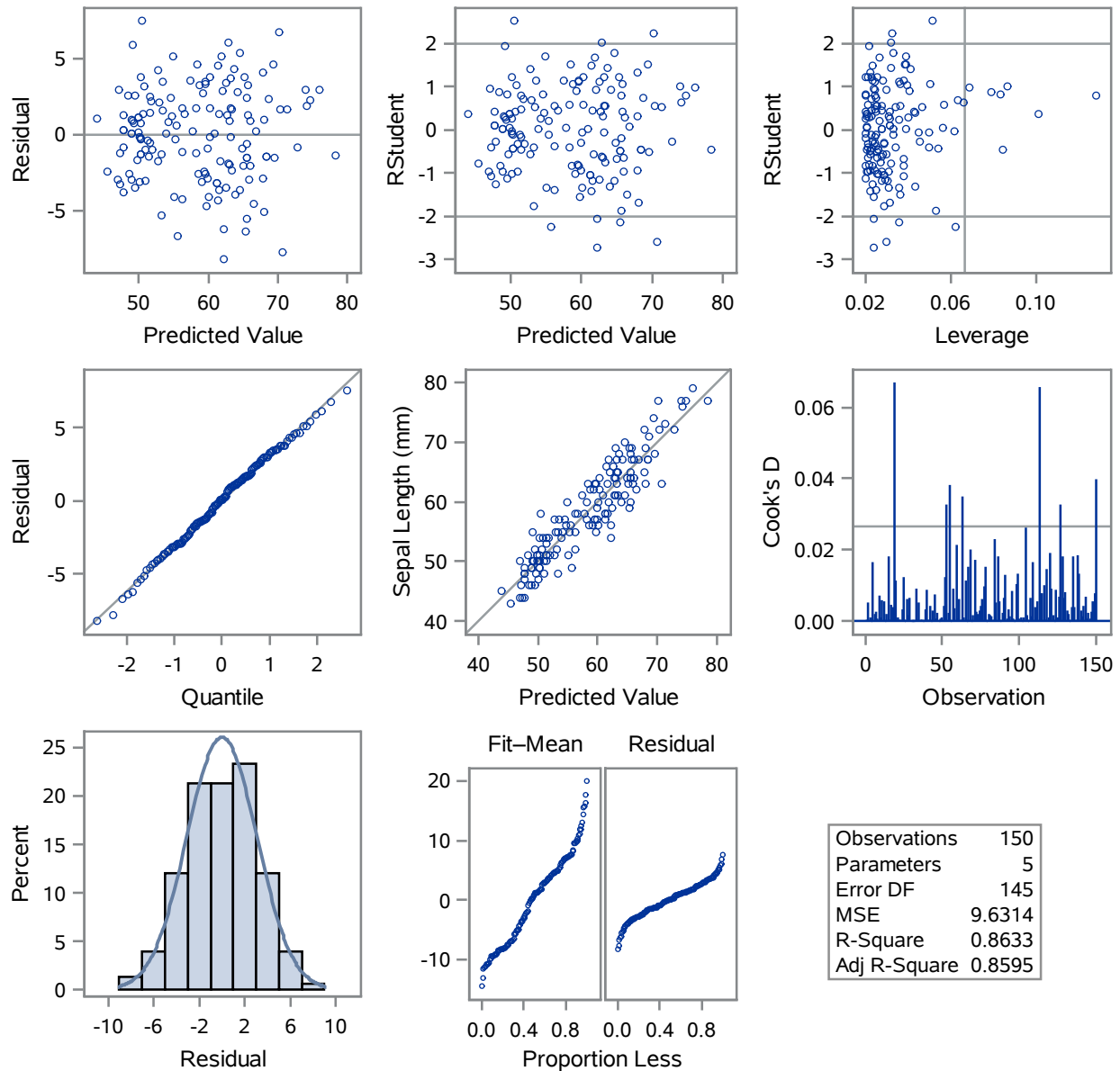
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8820.28190	2205.07048	228.95	<.0001
Error	145	1396.55143	9.63139		
Corrected Total	149	10217			

Root MSE	3.10345	R-Square	0.8633
Dependent Mean	58.43333	Adj R-Sq	0.8595
Coeff Var	5.31109		

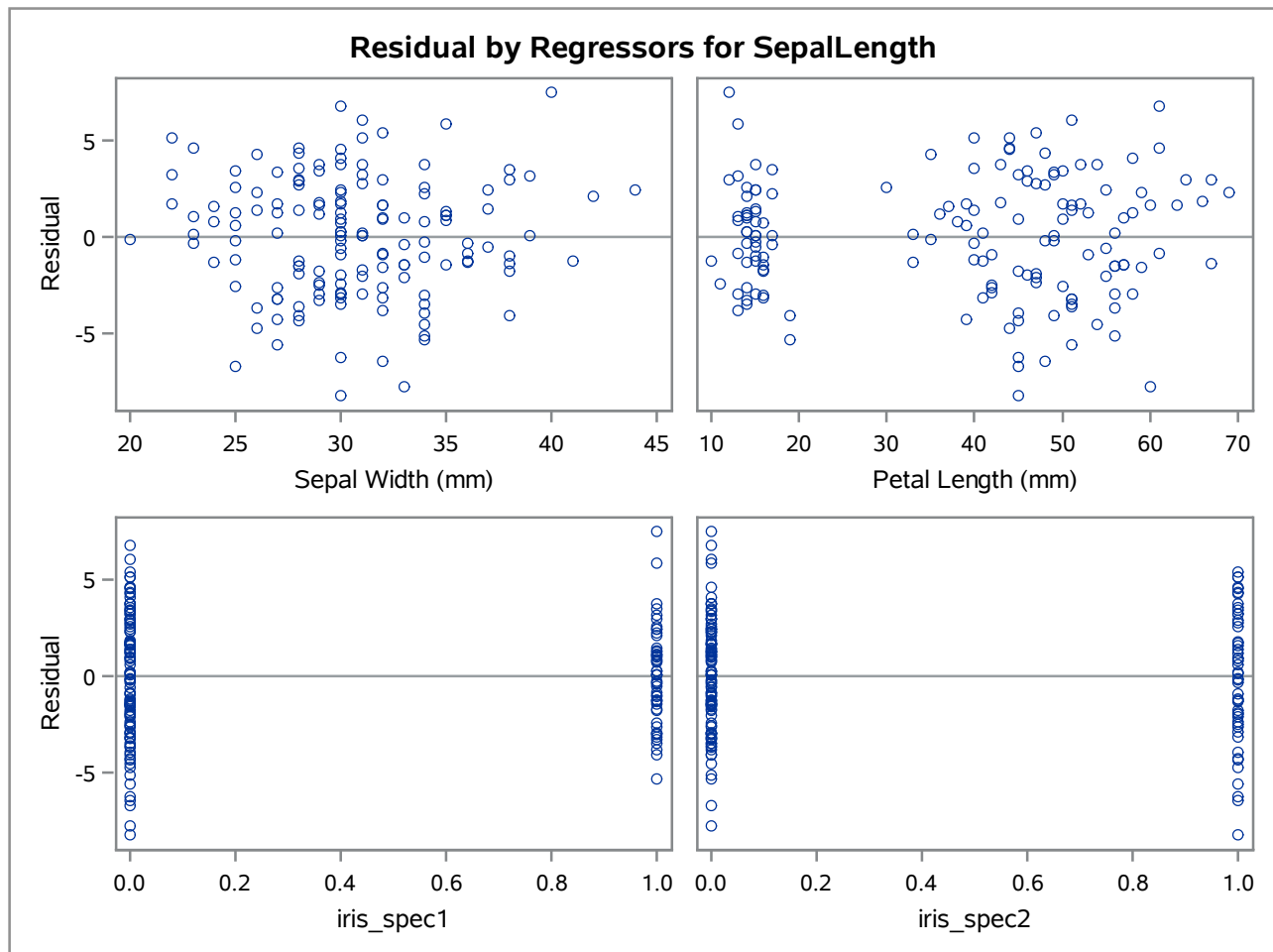
Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	9.96291	3.49983	2.85	0.0051	0
SepalWidth	Sepal Width (mm)	1	0.43222	0.08139	5.31	<.0001	1.94690
PetalLength	Petal Length (mm)	1	0.77563	0.06425	12.07	<.0001	19.89854
iris_spec1		1	13.94098	2.85661	4.88	<.0001	28.24166
iris_spec2		1	4.38286	0.99882	4.39	<.0001	3.45276

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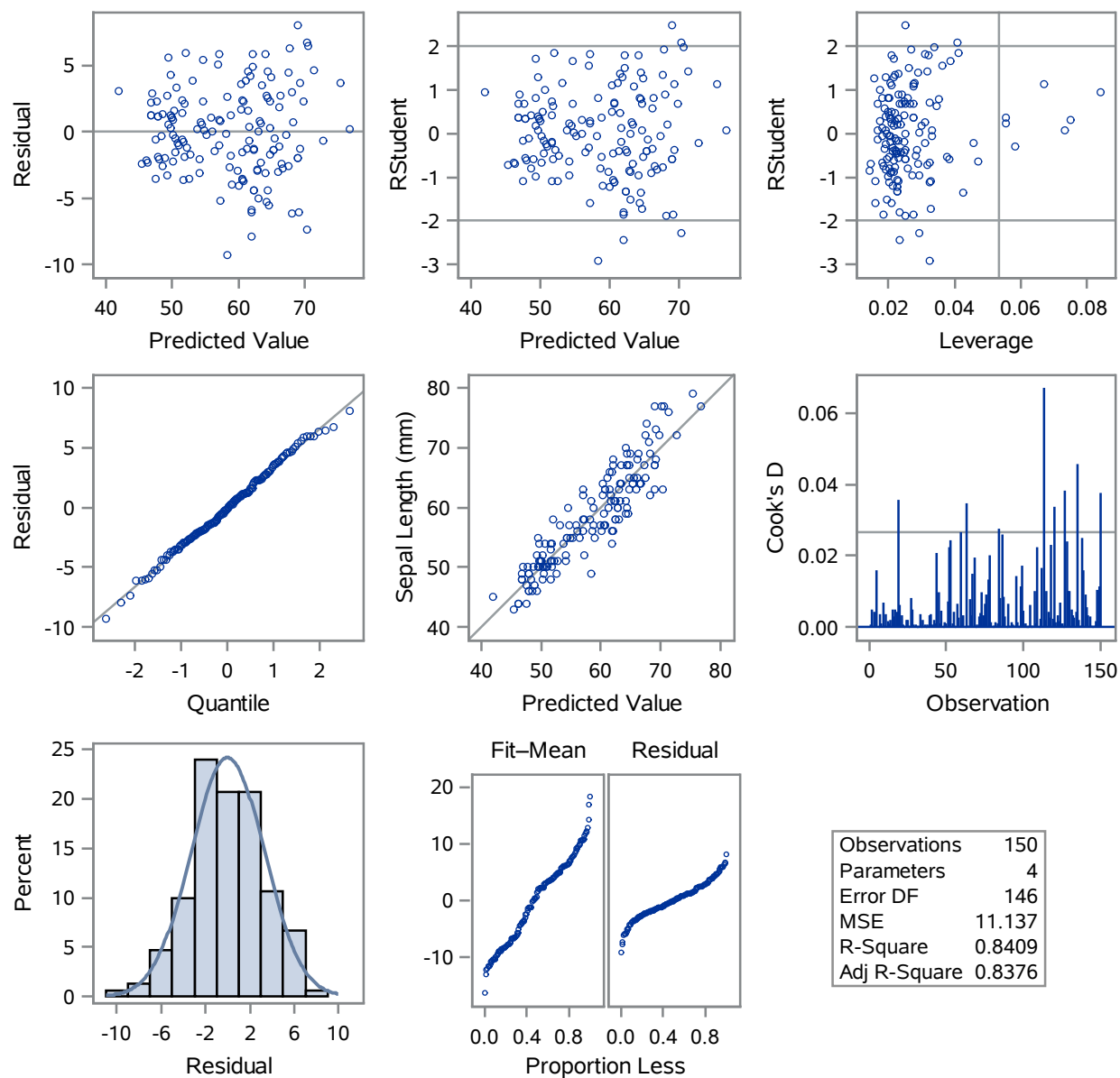
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	8590.89164	2863.63055	257.14	<.0001
Error	146	1625.94169	11.13659		
Corrected Total	149	10217			

Root MSE	3.33715	R-Square	0.8409
Dependent Mean	58.43333	Adj R-Sq	0.8376
Coeff Var	5.71104		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	21.52077	2.77087	7.77	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.62167	0.07692	8.08	<.0001	1.50396
PetalLength	Petal Length (mm)	1	0.47190	0.01714	27.53	<.0001	1.22483
iris_spec2		1	0.51604	0.65395	0.79	0.4313	1.28000

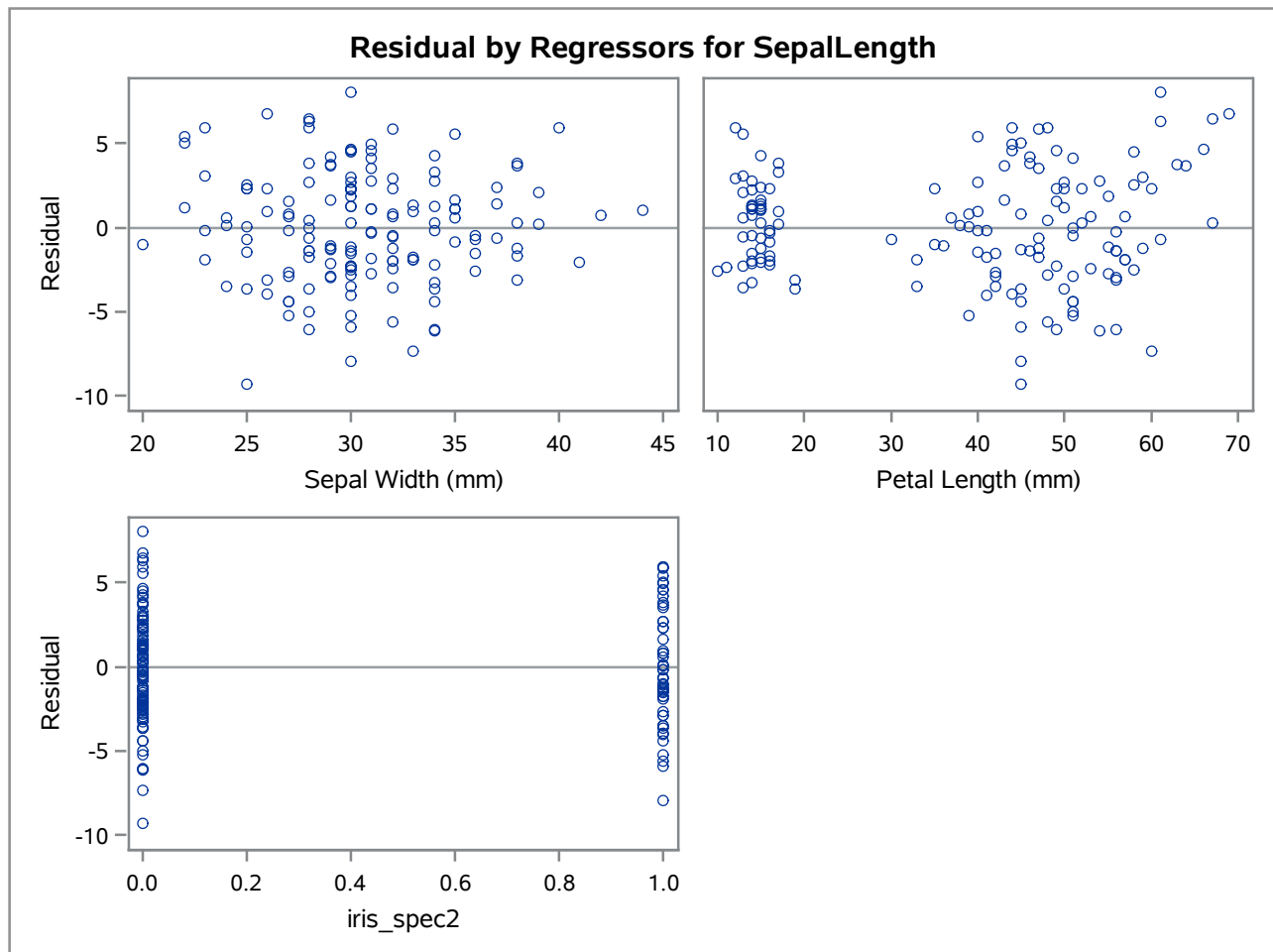
The REG Procedure  
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Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength





The REG Procedure  
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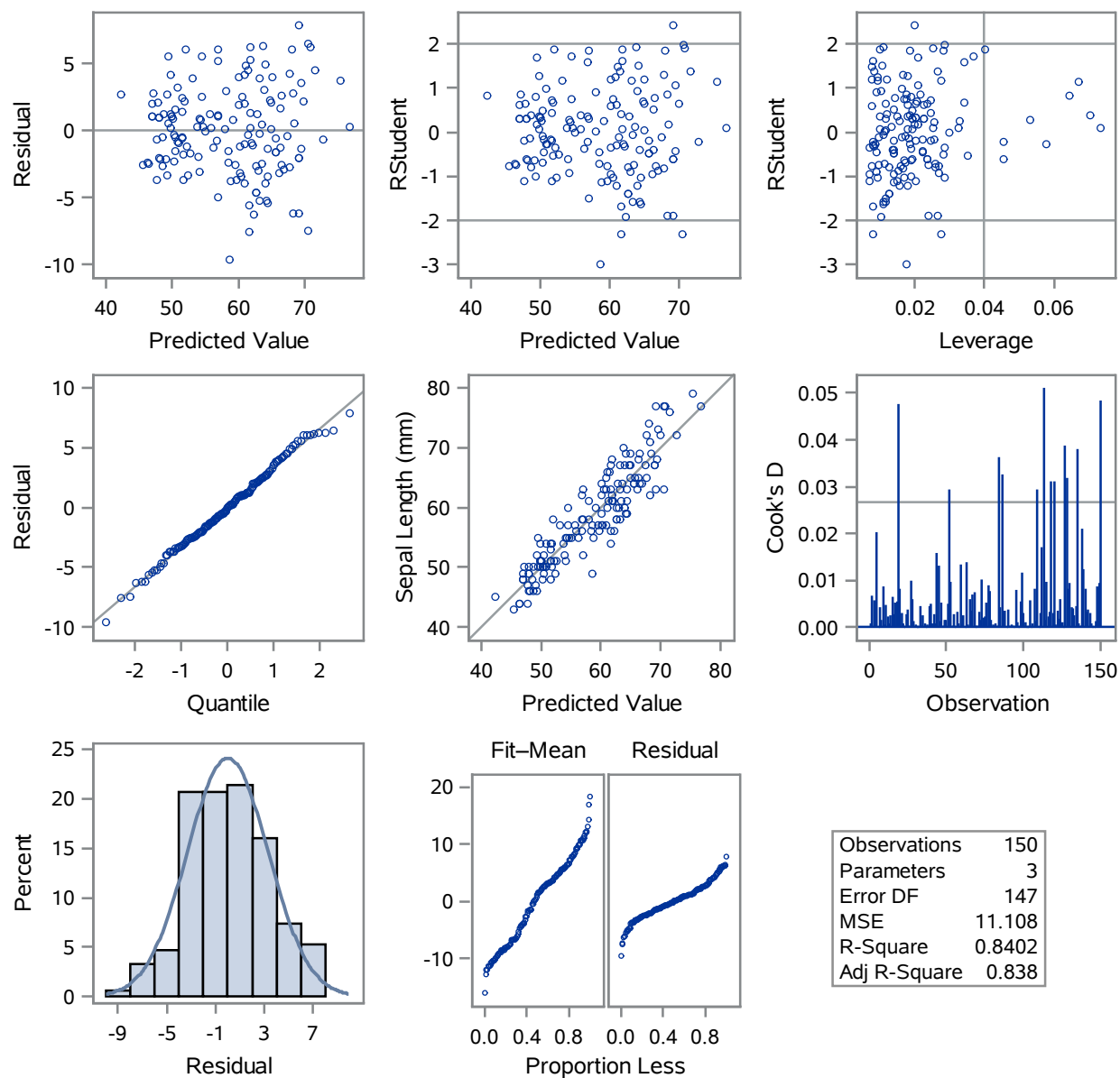
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	8583.95691	4291.97846	386.39	<.0001
Error	147	1632.87642	11.10800		
Corrected Total	149	10217			

Root MSE	3.33287	R-Square	0.8402
Dependent Mean	58.43333	Adj R-Sq	0.8380
Coeff Var	5.70371		

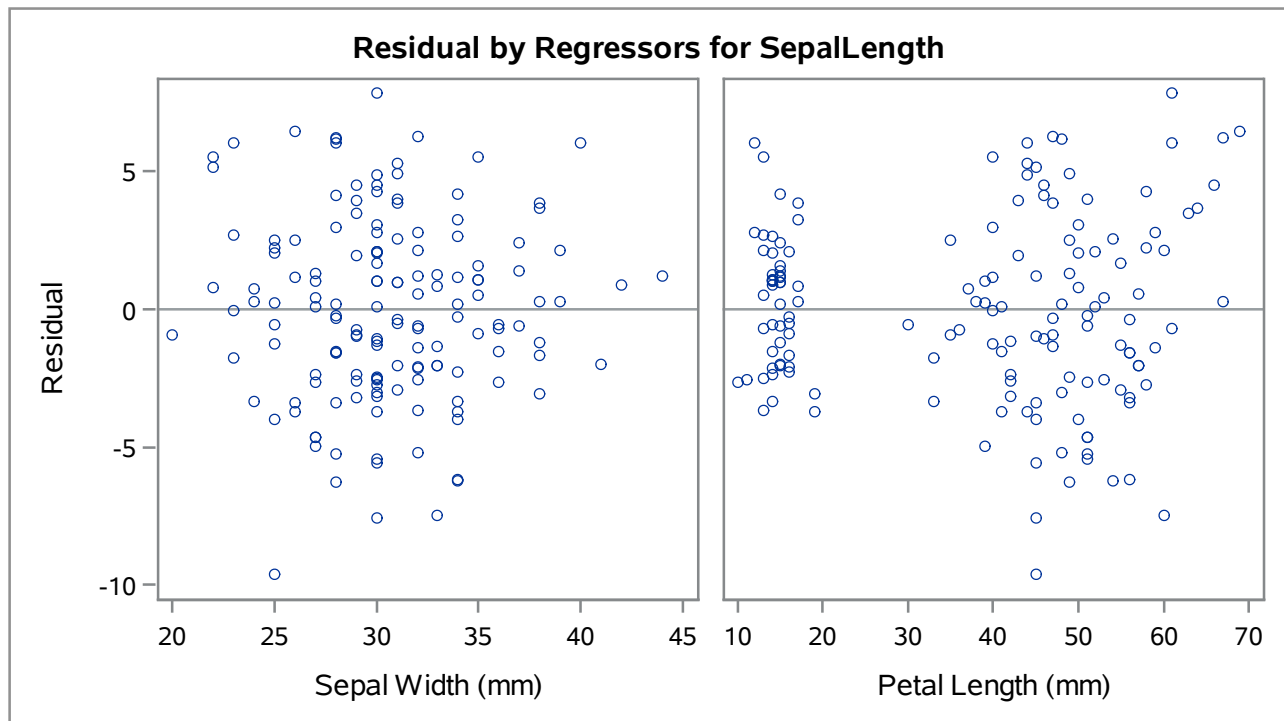
Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	22.49140	2.47970	9.07	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.59552	0.06933	8.59	<.0001	1.22483
PetalLength	Petal Length (mm)	1	0.47192	0.01712	27.57	<.0001	1.22483

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## Fit Diagnostics for SepalLength



The REG Procedure  
Model: MODEL1  
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**Regression with Interaction variable of Iris\_spec1\*Sepalwidth****The REG Procedure****Model: MODEL1****Dependent Variable: SepalLength Sepal Length (mm)**

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8668.07404	2167.01851	202.88	<.0001
Error	145	1548.75930	10.68110		
Corrected Total	149	10217			

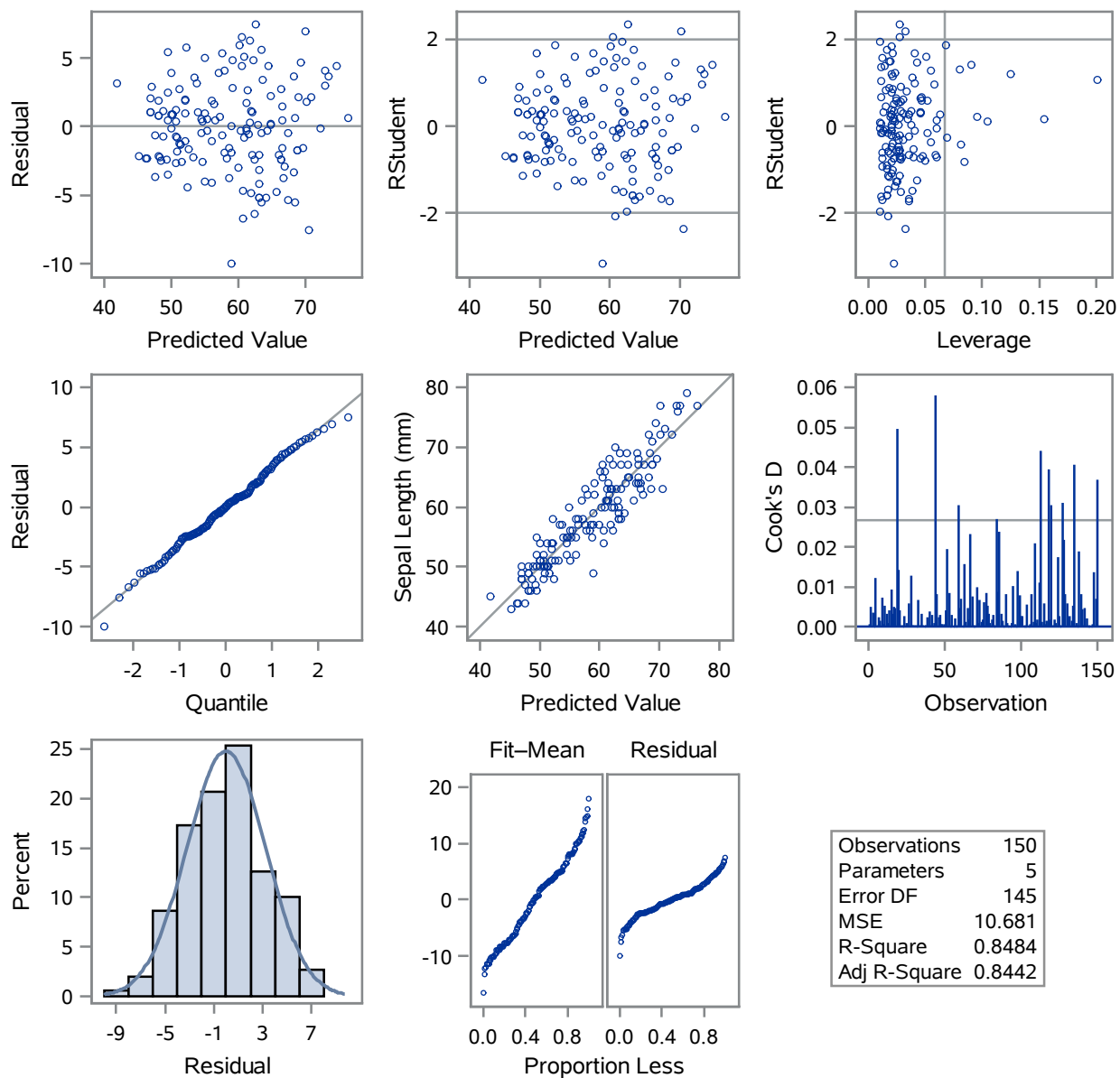
Root MSE	3.26820	R-Square	0.8484
Dependent Mean	58.43333	Adj R-Sq	0.8442
Coeff Var	5.59303		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	23.89093	2.90666	8.22	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.34763	0.11511	3.02	0.0030	3.51144
PetalLength	Petal Length (mm)	1	0.58592	0.04591	12.76	<.0001	9.16267
iris_mul1		1	0.29515	0.16731	1.76	0.0798	104.49765
iris_spec1		1	-4.43184	5.11710	-0.87	0.3879	81.71666

# Regression with Interaction variable of Iris\_spec1\*Sepalwidth

The REG Procedure  
 Model: MODEL1  
 Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength

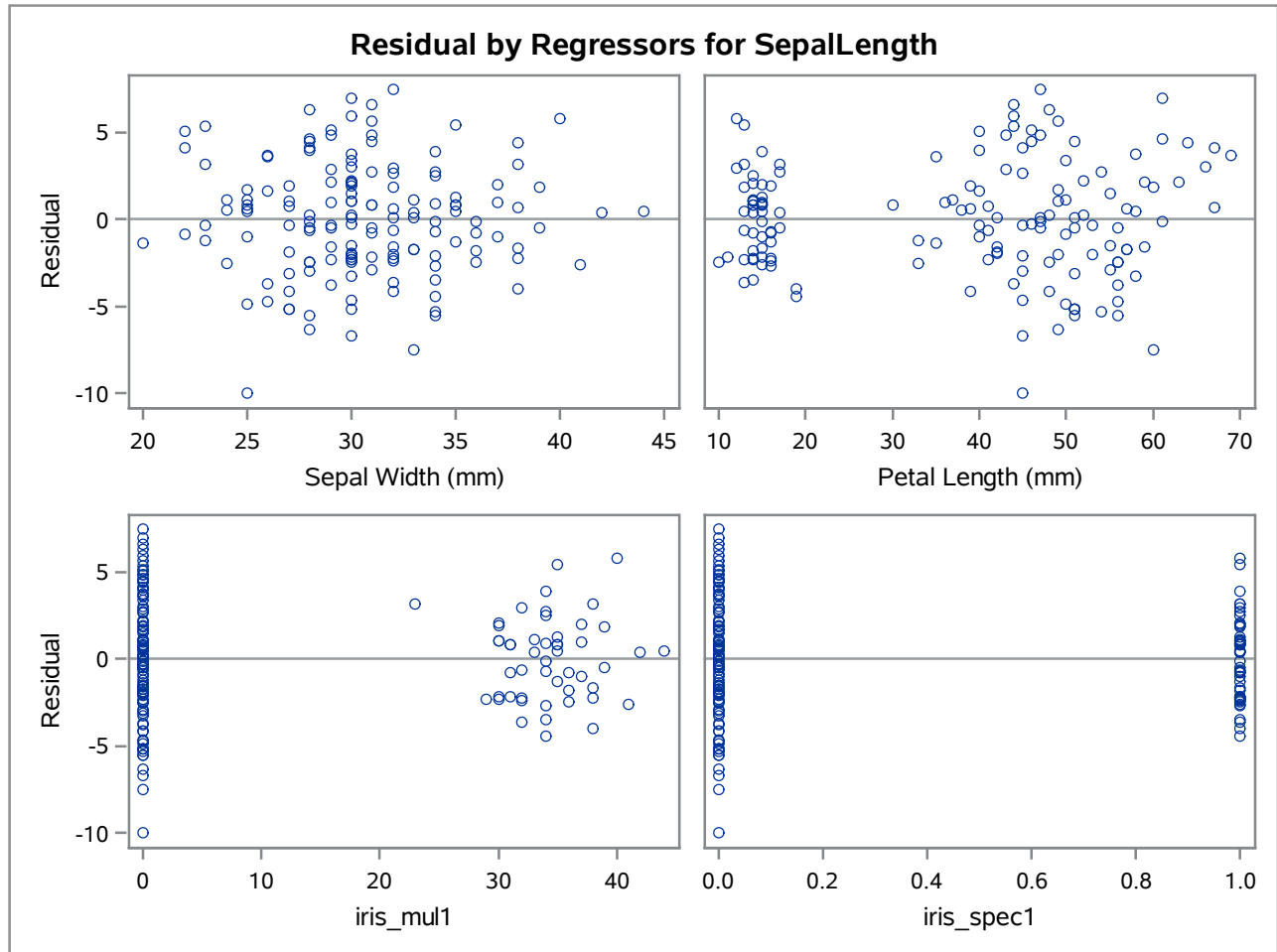


**Regression with Interaction variable of Iris\_spec1\*Sepalwidth**

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)



**Regression with Interaction variable of Iris\_spec1\*Petallength****The REG Procedure****Model: MODEL1****Dependent Variable: SepalLength Sepal Length (mm)**

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8641.19134	2160.29783	198.80	<.0001
Error	145	1575.64200	10.86650		
Corrected Total	149	10217			

Root MSE	3.29644	R-Square	0.8458
Dependent Mean	58.43333	Adj R-Sq	0.8415
Coeff Var	5.64136		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	20.97549	2.54533	8.24	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.48866	0.08563	5.71	<.0001	1.91027
PetalLength	Petal Length (mm)	1	0.56279	0.04396	12.80	<.0001	8.25668
iris_mul2		1	-0.21003	0.27455	-0.77	0.4455	50.44624
iris_spec1		1	7.17604	4.54721	1.58	0.1167	63.42786



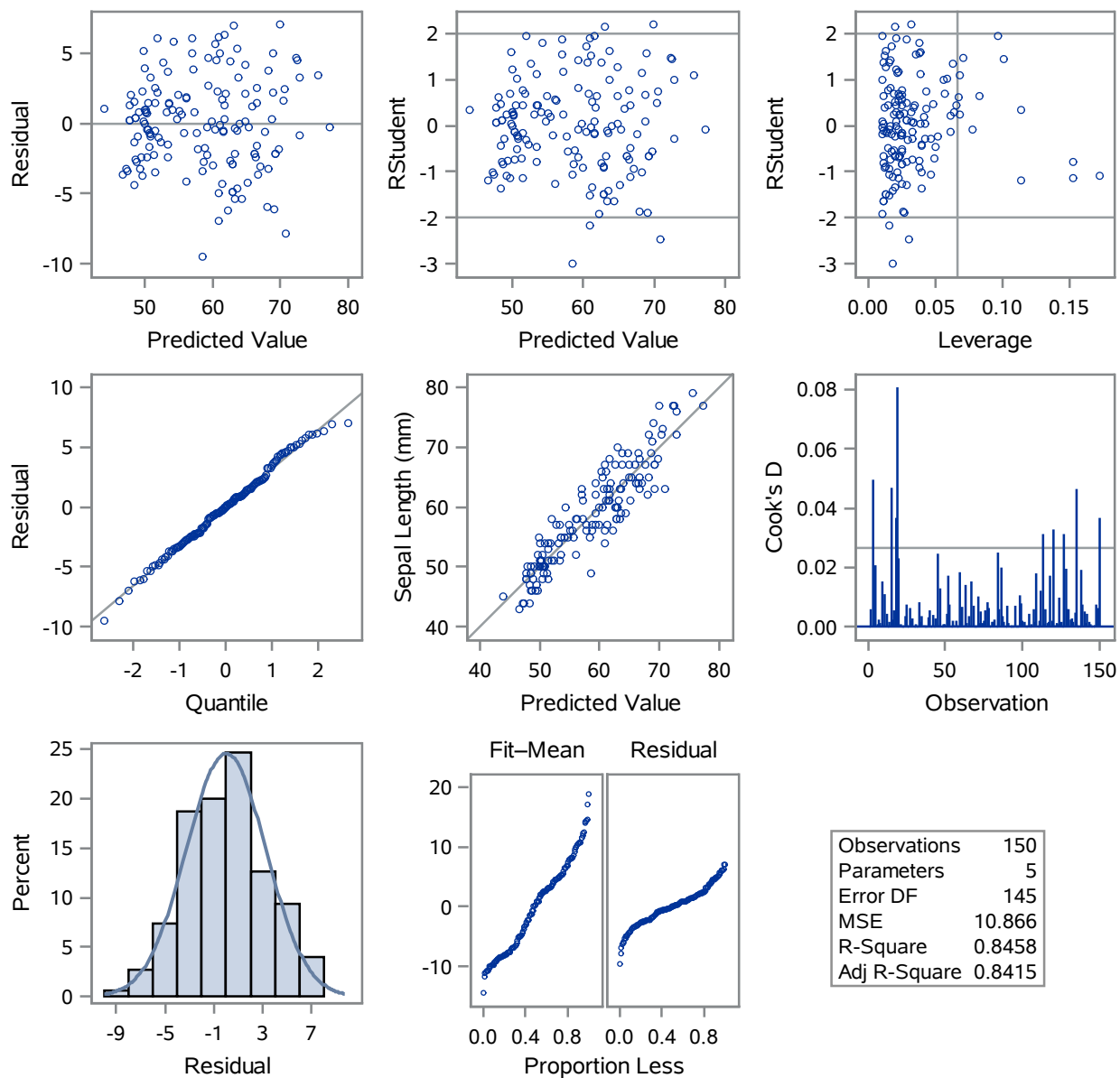
# Regression with Interaction variable of Iris\_spec1\*Petallength

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength

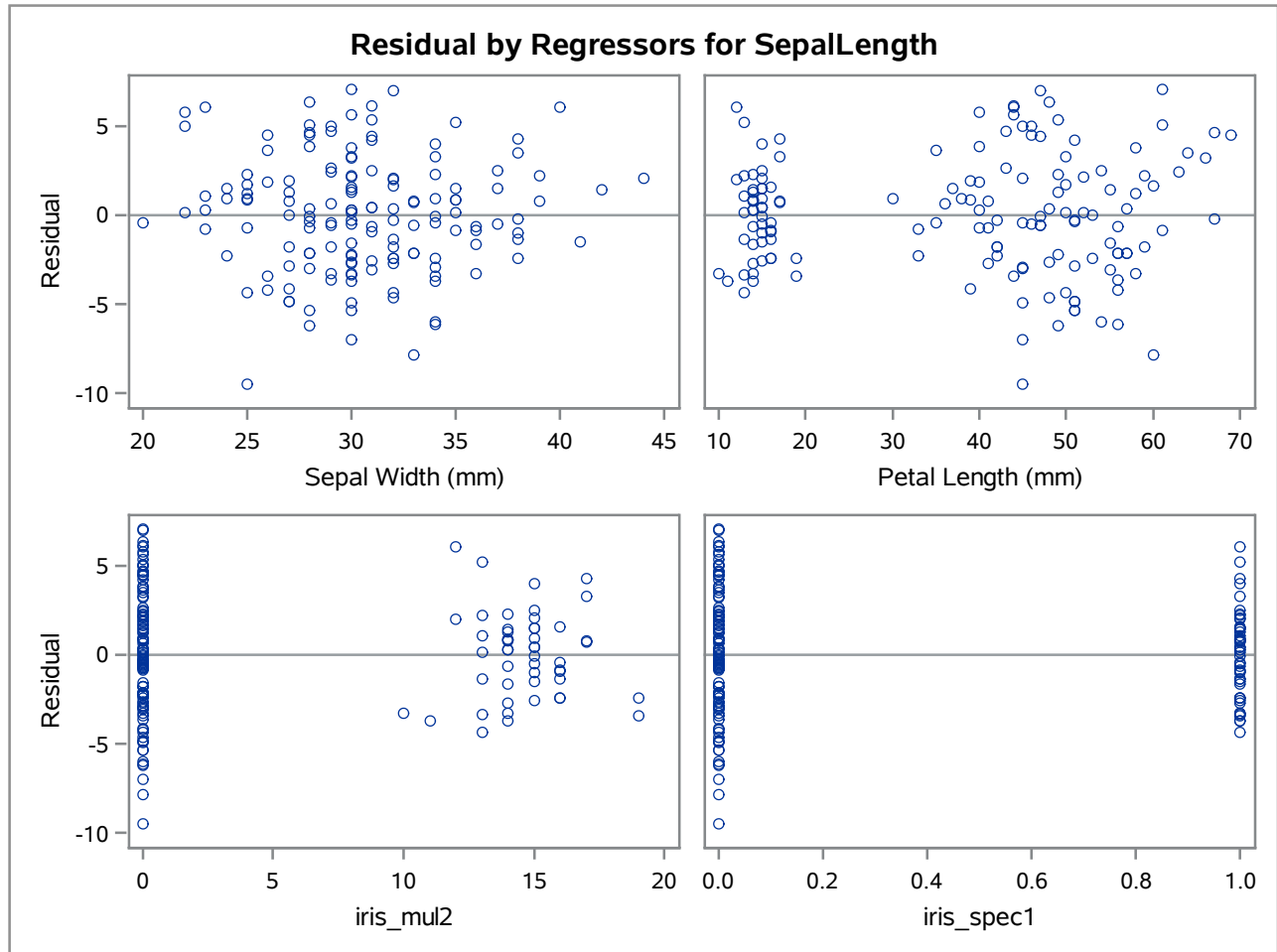


**Regression with Interaction variable of Iris\_spec1\*Petallength**

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)



**Regression with Interaction variable of Iris\_spec2\*Sepalwidth****The REG Procedure****Model: MODEL1****Dependent Variable: SepalLength Sepal Length (mm)**

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8607.01692	2151.75423	193.81	<.0001
Error	145	1609.81641	11.10218		
Corrected Total	149	10217			

Root MSE	3.33199	R-Square	0.8424
Dependent Mean	58.43333	Adj R-Sq	0.8381
Coeff Var	5.70221		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	19.34394	3.30401	5.85	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.68183	0.09160	7.44	<.0001	2.13924
PetalLength	Petal Length (mm)	1	0.47906	0.01812	26.44	<.0001	1.37257
iris_mu13		1	-0.21887	0.18161	-1.21	0.2301	77.41162
iris_spec2		1	6.78398	5.24169	1.29	0.1976	82.49225

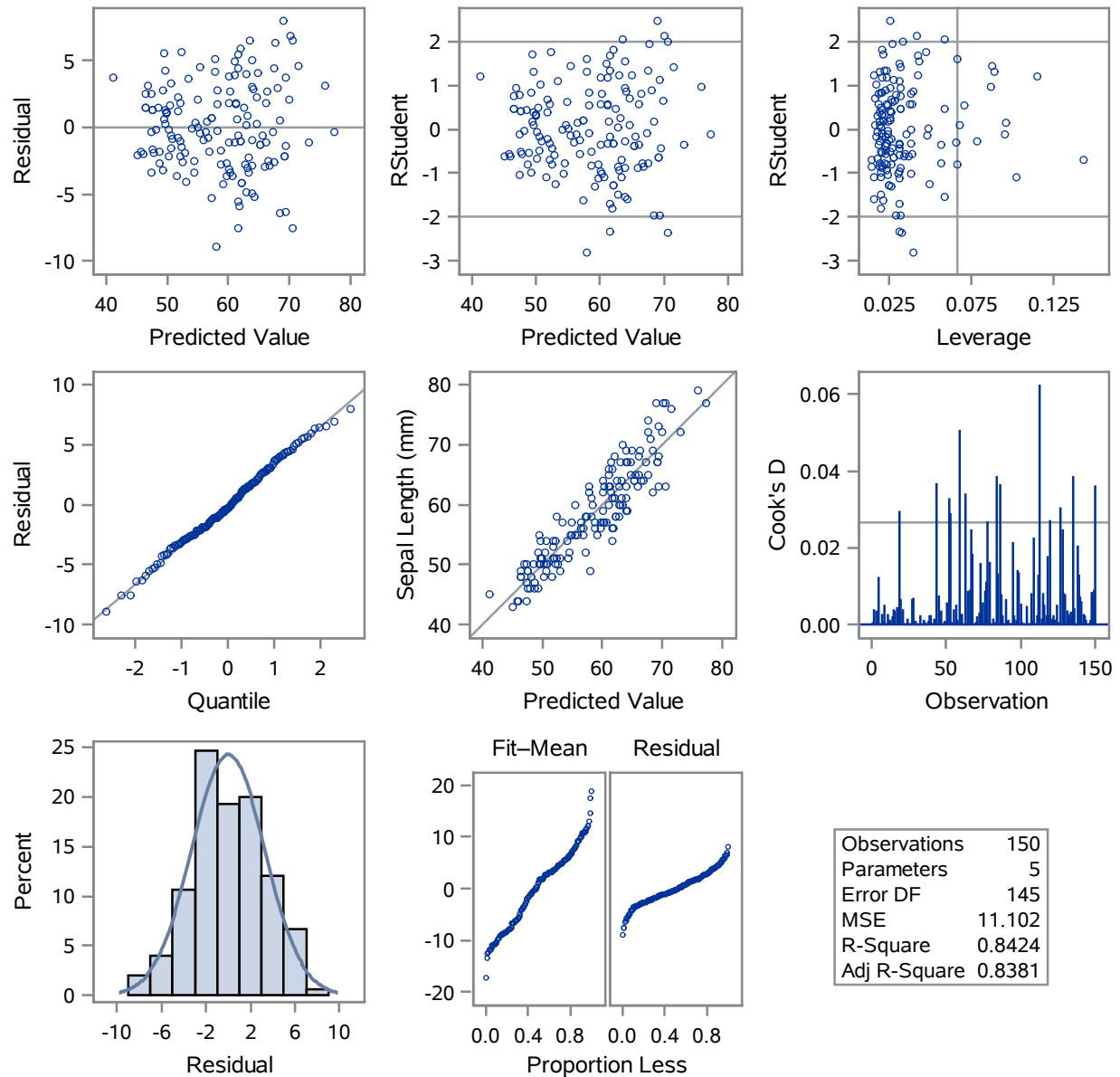
# Regression with Interaction variable of Iris\_spec2\*Sepalwidth

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength

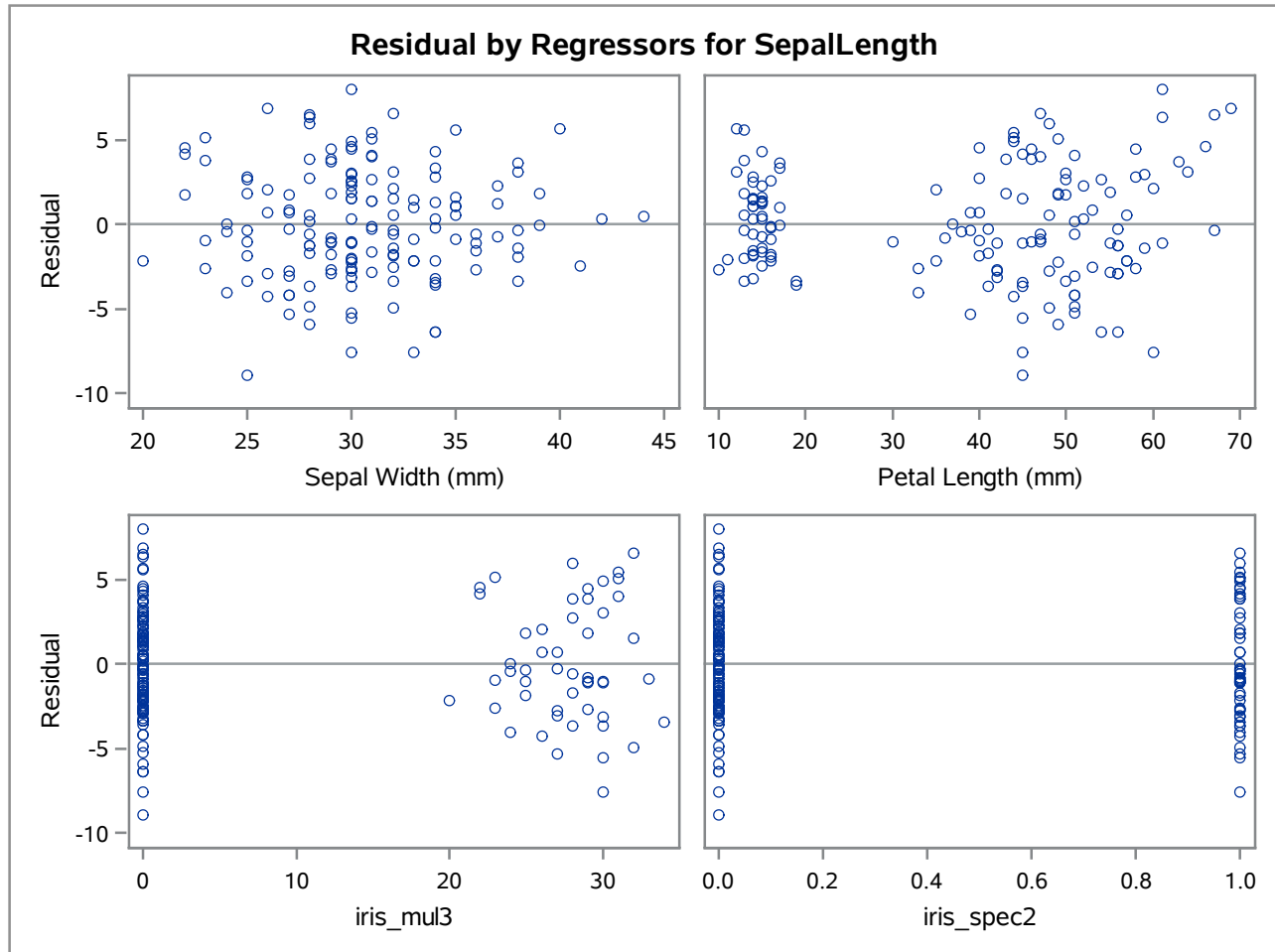


**Regression with Interaction variable of Iris\_spec2\*Sepalwidth**

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)



**Regression with Interaction variable of Iris\_spec2\*Petallength****The REG Procedure****Model: MODEL1****Dependent Variable: SepalLength Sepal Length (mm)**

Number of Observations Read	150
Number of Observations Used	150

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	8610.27652	2152.56913	194.28	<.0001
Error	145	1606.55681	11.07970		
Corrected Total	149	10217			

Root MSE	3.32862	R-Square	0.8428
Dependent Mean	58.43333	Adj R-Sq	0.8384
Coeff Var	5.69644		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	22.98663	2.97769	7.72	<.0001	0
SepalWidth	Sepal Width (mm)	1	0.58335	0.08201	7.11	<.0001	1.71848
PetalLength	Petal Length (mm)	1	0.46508	0.01786	26.05	<.0001	1.33606
iris_mul4		1	0.14485	0.10951	1.32	0.1880	66.64353
iris_spec2		1	-5.76836	4.79569	-1.20	0.2310	69.19146

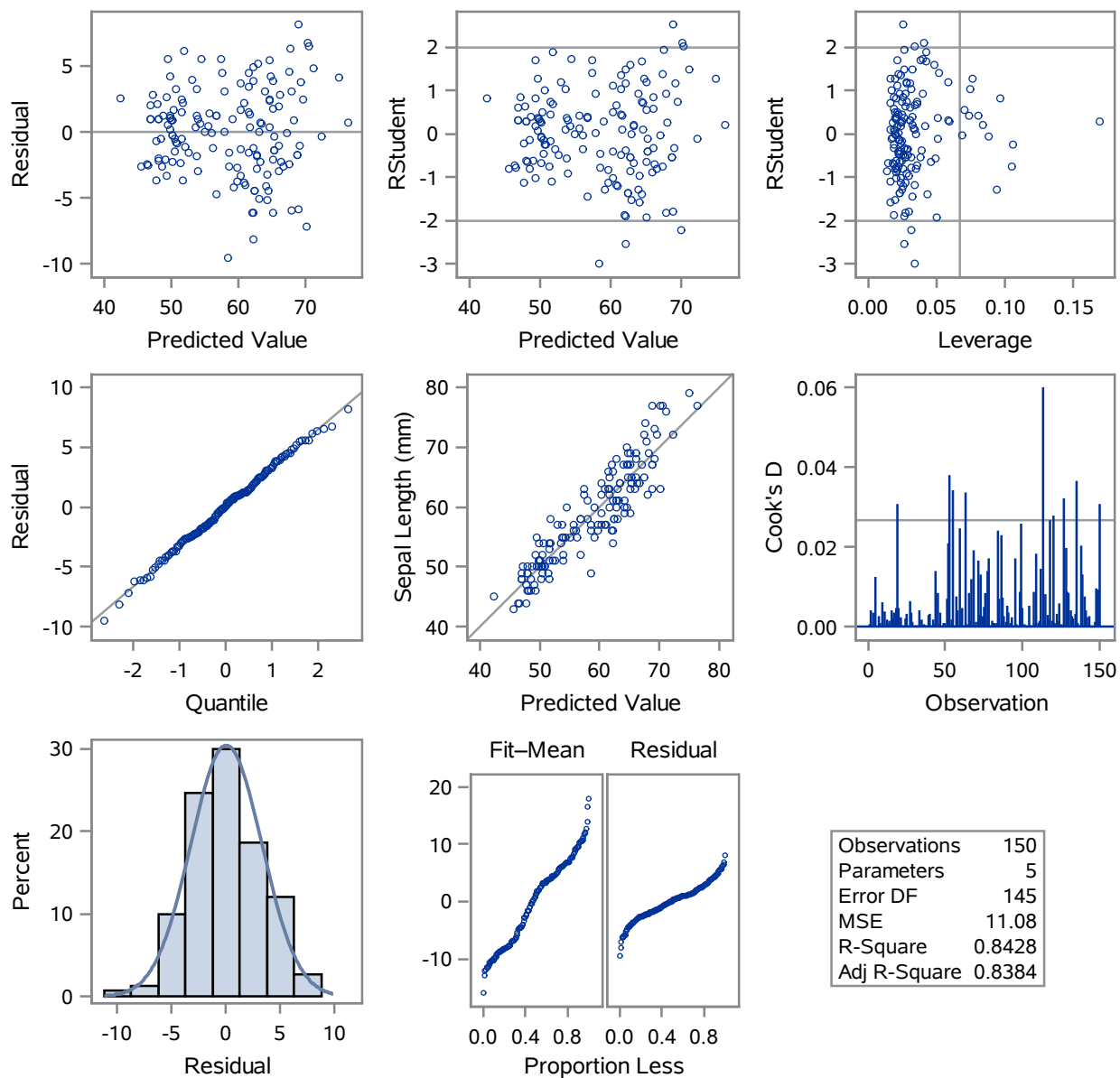
# Regression with Interaction variable of Iris\_spec2\*Petallength

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)

## Fit Diagnostics for SepalLength



**Regression with Interaction variable of Iris\_spec2\*Petallength**

The REG Procedure

Model: MODEL1

Dependent Variable: SepalLength Sepal Length (mm)

