## Test for normality of Y and X

| Obs | Animal_name | Body_Weight | Brain_weight |
|---|---|---|---|
| 1 | Africa giant poached rat | 1.000 | 6.600 |
| 2 | African elephant | 6654.0 | 5712.0 |
| 3 | Arctic fox | 3.385 | 44.500 |
| 4 | Arctic ground squirrel | 0.920 | 5.700 |
| 5 | Asian elephant | 2547.0 | 4603.0 |

## Test for normality of Y and X

### The UNIVARIATE Procedure
### Variable: Brain_weight (Brain Weight (gm))

| Moments | | | |
|---|---|---|---|
| **N** | 70 | **Sum Weights** | 70 |
| **Mean** | 247.255271 | **Sum Observations** | 17307.869 |
| **Std Deviation** | 865.910812 | **Variance** | 749801.534 |
| **Skewness** | 5.63845068 | **Kurtosis** | 32.0713003 |
| **Uncorrected SS** | 56015767.7 | **Corrected SS** | 51736305.9 |
| **Coeff Variation** | 350.209242 | **Std Error Mean** | 103.496138 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 247.2553 | **Std Deviation** | 865.91081 |
| **Median** | 25.3000 | **Variance** | 749802 |
| **Mode** | 1.0000 | **Range** | 5712 |
| | | **Interquartile Range** | 169.30000 |

**Note: The mode displayed is the smallest of 3 modes with a count of 2.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 2.389029 | **Pr > \|t\|** | 0.0196 |
| **Sign** | **M** | 35 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 1242.5 | **Pr >= \|S\|** | <.0001 |

| Trimmed Means | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Percent Trimmed in Tail** | **Number Trimmed in Tail** | **Trimmed Mean** | **Std Error Trimmed Mean** | **95% Confidence Limits** | | **DF** | **t for H0: Mu0=0.00** | **Pr > \|t\|** |
| **10.00** | 7 | 81.02588 | 20.73930 | 39.46338 | 122.5884 | 55 | 3.906875 | 0.0003 |

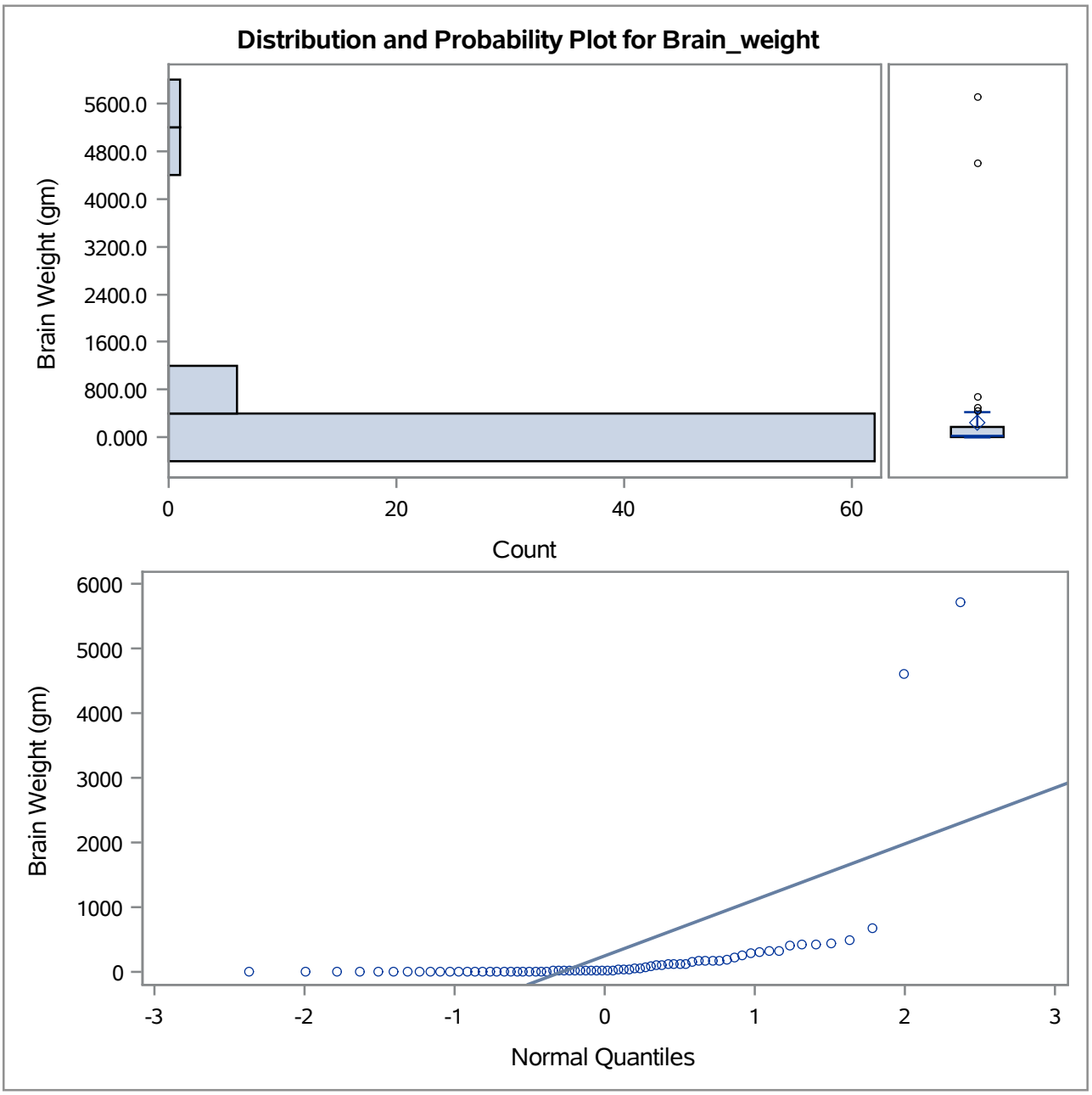
| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 5712.00 |
| **99%** | 5712.00 |
| **95%** | 490.00 |
| **90%** | 412.50 |
| **75% Q3** | 175.00 |
| **50% Median** | 25.30 |
| **25% Q1** | 5.70 |
| **10%** | 1.10 |
| **5%** | 0.33 |

## Test for normality of Y and X

### The UNIVARIATE Procedure
### Variable: Brain_weight (Brain Weight (gm))

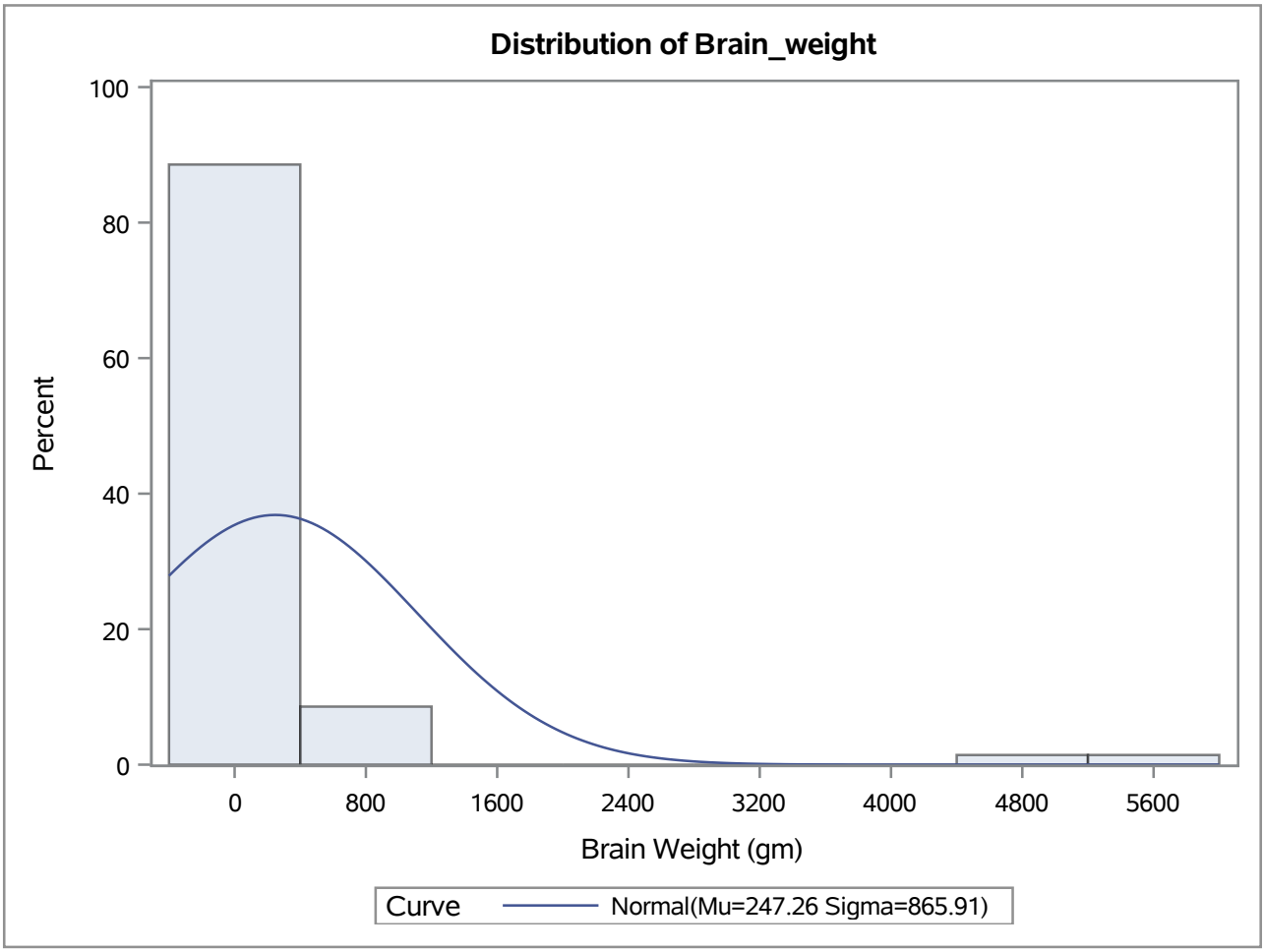
| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **1%** | 0.14 |
| **0% Min** | 0.14 |

| Extreme Observations | | | |
|---|---|---|---|
| **Lowest** | | **Highest** | |
| **Value** | **Obs** | **Value** | **Obs** |
| 0.14 | 39 | 440 | 11 |
| 0.25 | 41 | 490 | 49 |
| 0.30 | 7 | 680 | 26 |
| 0.33 | 46 | 4603 | 5 |
| 0.40 | 45 | 5712 | 2 |



**Test for normality of Y and X**

**The UNIVARIATE Procedure**



# Test for normality of Y and X

## The UNIVARIATE Procedure
## Fitted Normal Distribution for Brain_weight (Brain Weight (gm))

| Parameters for Normal Distribution | | |
|---|---|---|
| **Parameter** | **Symbol** | **Estimate** |
| **Mean** | Mu | 247.2553 |
| **Std Dev** | Sigma | 865.9108 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Kolmogorov-Smirnov** | **D** | 0.3876758 | **Pr > D** | <0.010 |
| **Cramer-von Mises** | **W-Sq** | 3.7314961 | **Pr > W-Sq** | <0.005 |
| **Anderson-Darling** | **A-Sq** | 18.6069200 | **Pr > A-Sq** | <0.005 |

| Quantiles for Normal Distribution | | |
|---|---|---|
| | **Quantile** | |
| **Percent** | **Observed** | **Estimated** |
| **1.0** | 0.14000 | -1767.155 |
| **5.0** | 0.33000 | -1177.041 |
| **10.0** | 1.10000 | -862.454 |
| **25.0** | 5.70000 | -336.793 |
| **50.0** | 25.30000 | 247.255 |
| **75.0** | 175.00000 | 831.303 |
| **90.0** | 412.50000 | 1356.965 |
| **95.0** | 490.00000 | 1671.552 |
| **99.0** | 5712.00000 | 2261.665 |

## Test for normality of Y and X

### The UNIVARIATE Procedure
### Variable: Body_Weight (Body Weight (kg))

| Moments | | | |
|---|---|---|---|
| **N** | 70 | **Sum Weights** | 70 |
| **Mean** | 178.596571 | **Sum Observations** | 12501.76 |
| **Std Deviation** | 845.827224 | **Variance** | 715423.693 |
| **Skewness** | 7.01656835 | **Kurtosis** | 52.1471015 |
| **Uncorrected SS** | 51597006.3 | **Corrected SS** | 49364234.8 |
| **Coeff Variation** | 473.596563 | **Std Error Mean** | 101.09569 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 178.5966 | **Std Deviation** | 845.82722 |
| **Median** | 3.5500 | **Variance** | 715424 |
| **Mode** | 0.0230 | **Range** | 6654 |
| | | **Interquartile Range** | 54.60000 |

**Note: The mode displayed is the smallest of 3 modes with a count of 2.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 1.766609 | **Pr > \|t\|** | 0.0817 |
| **Sign** | **M** | 35 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 1242.5 | **Pr >= \|S\|** | <.0001 |

| Trimmed Means | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Percent Trimmed in Tail** | **Number Trimmed in Tail** | **Trimmed Mean** | **Std Error Trimmed Mean** | **95% Confidence Limits** | | **DF** | **t for H0: Mu0=0.00** | **Pr > \|t\|** |
| **10.00** | 7 | 29.27689 | 10.18318 | 8.869335 | 49.68445 | 55 | 2.875023 | 0.0057 |

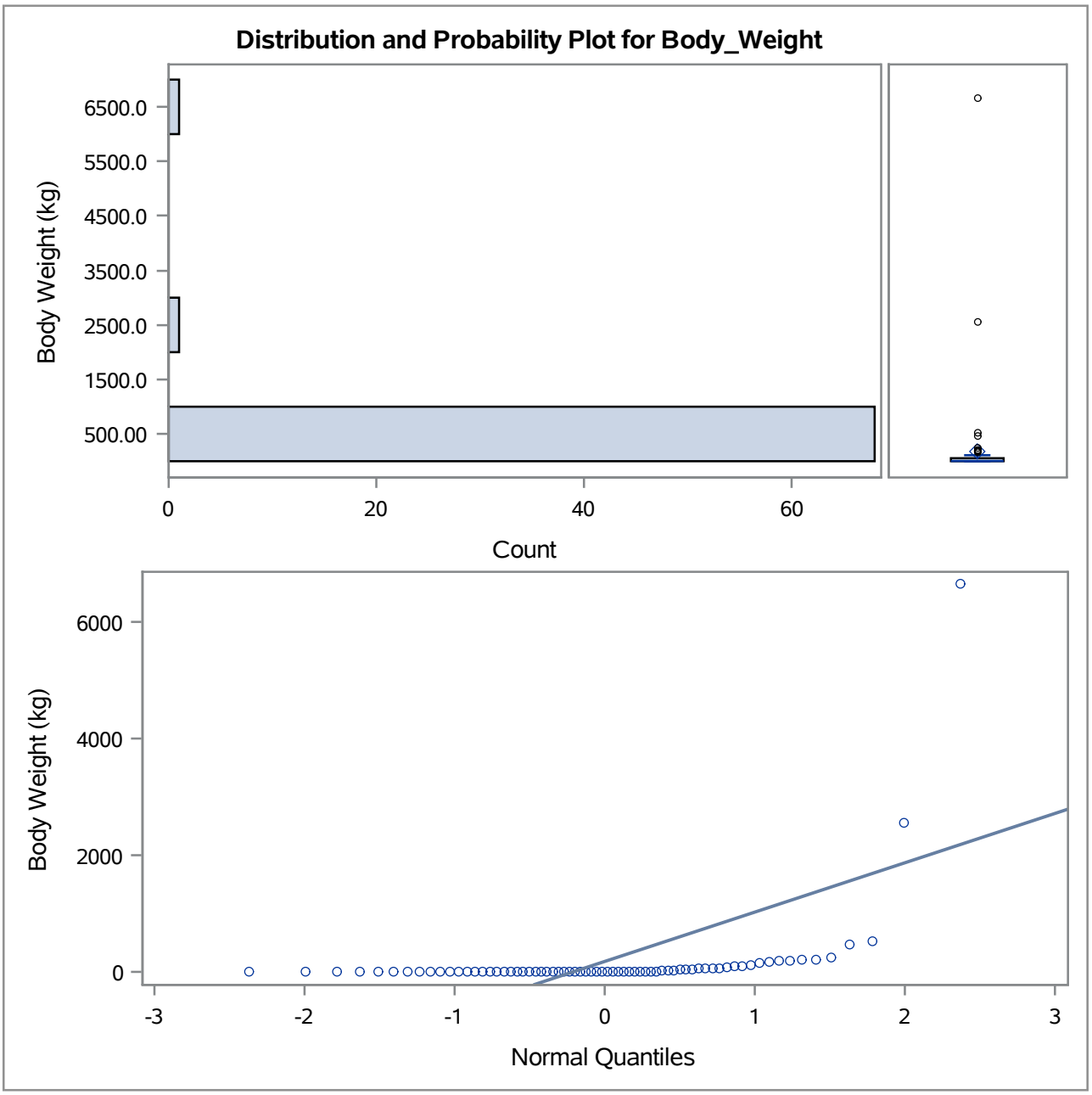
| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 6654.000 |
| **99%** | 6654.000 |
| **95%** | 465.000 |
| **90%** | 199.500 |
| **75% Q3** | 55.500 |
| **50% Median** | 3.550 |
| **25% Q1** | 0.900 |
| **10%** | 0.088 |
| **5%** | 0.023 |

## Test for normality of Y and X

### The UNIVARIATE Procedure
### Variable: Body_Weight (Body Weight (kg))

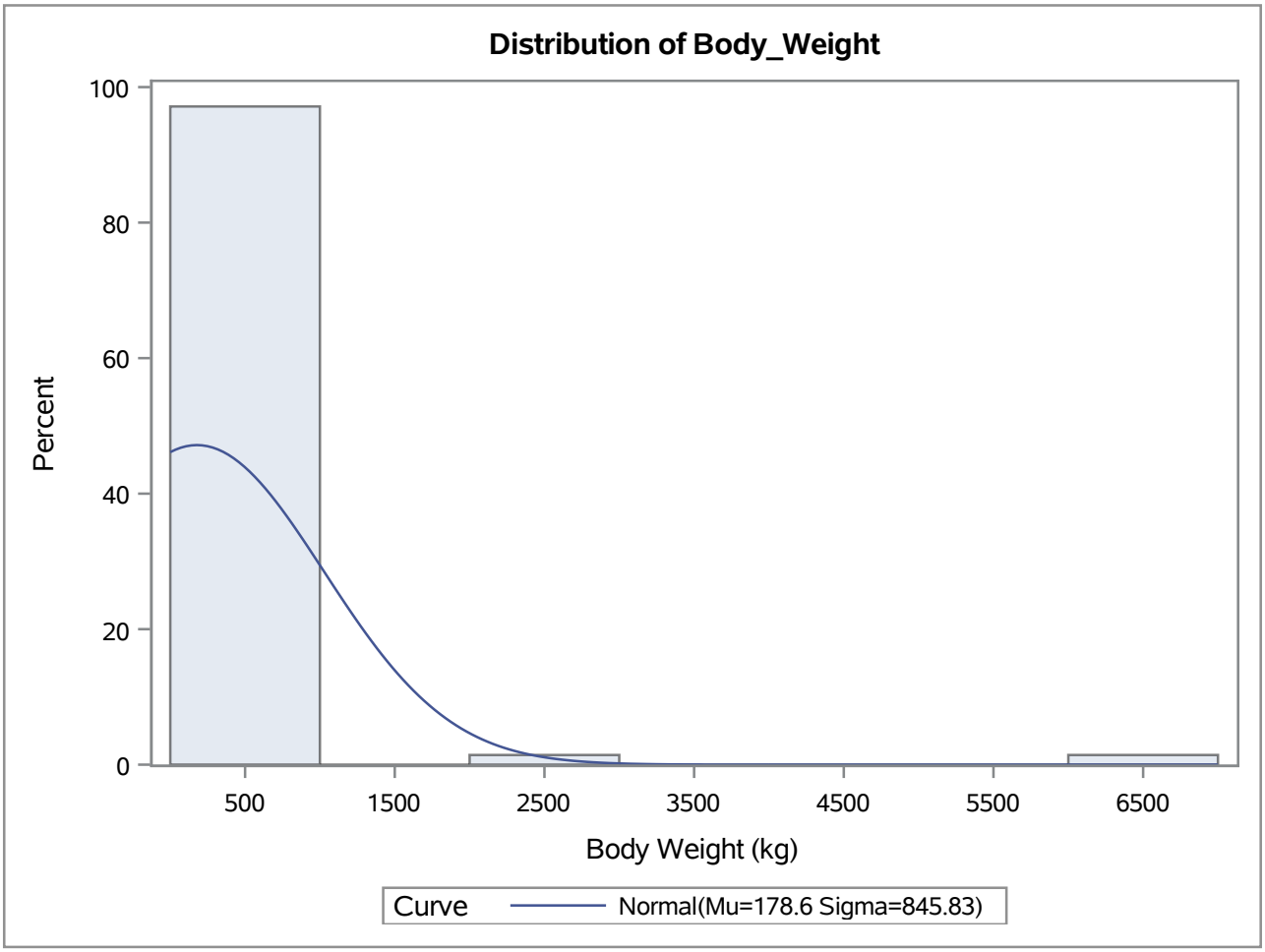
| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **1%** | 0.005 |
| **0% Min** | 0.005 |

| Extreme Observations | | | |
|---|---|---|---|
| **Lowest** | | **Highest** | |
| **Value** | **Obs** | **Value** | **Obs** |
| 0.005 | 39 | 250.01 | 49 |
| 0.010 | 41 | 465.00 | 13 |
| 0.023 | 45 | 529.00 | 26 |
| 0.023 | 7 | 2547.00 | 5 |
| 0.048 | 46 | 6654.00 | 2 |



**Test for normality of Y and X**

**The UNIVARIATE Procedure**



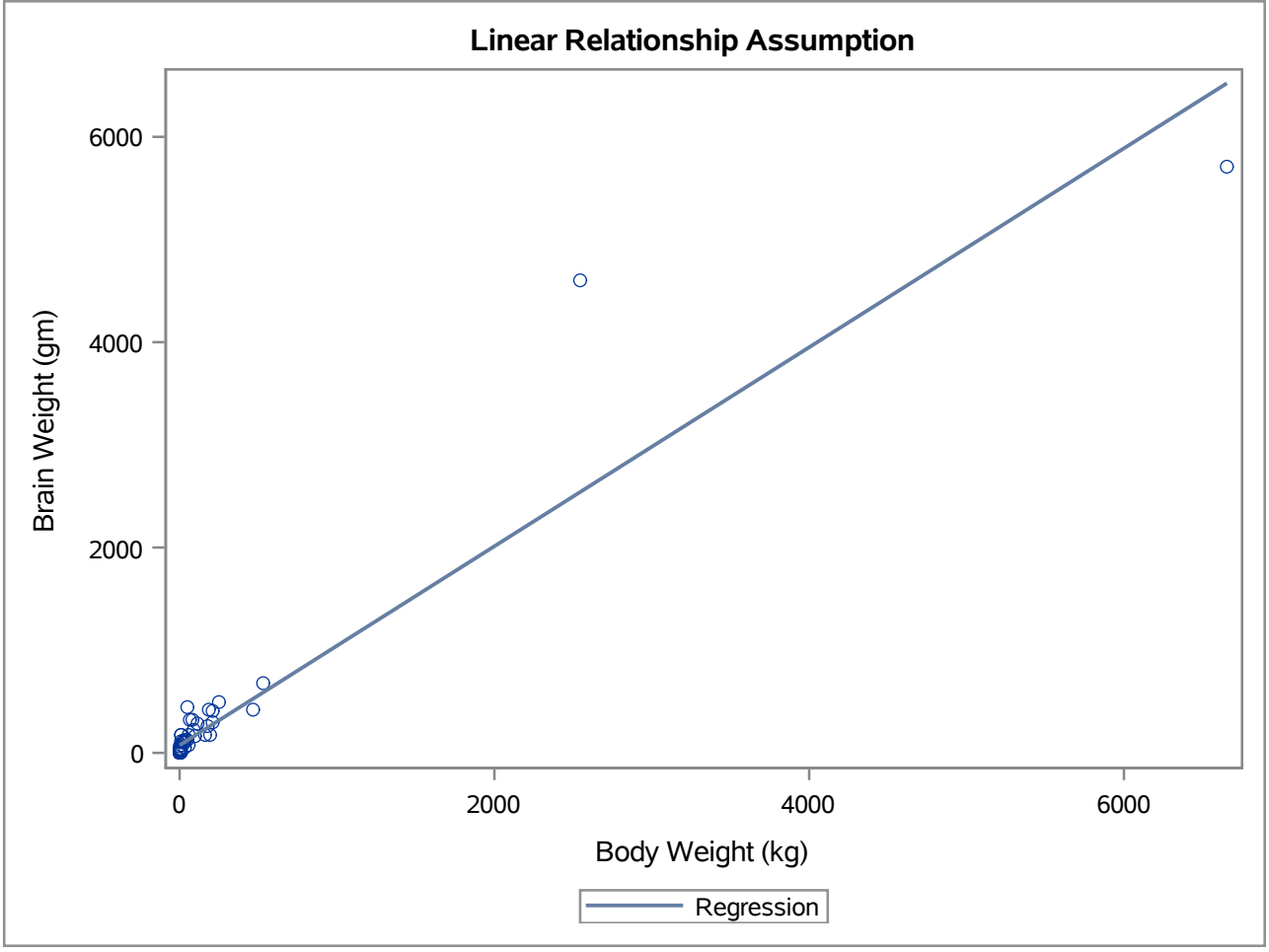
# Test for normality of Y and X

## The UNIVARIATE Procedure
## Fitted Normal Distribution for Body_Weight (Body Weight (kg))

| Parameters for Normal Distribution | | |
|---|---|---|
| **Parameter** | **Symbol** | **Estimate** |
| **Mean** | Mu | 178.5966 |
| **Std Dev** | Sigma | 845.8272 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Kolmogorov-Smirnov** | **D** | 0.4163873 | **Pr > D** | <0.010 |
| **Cramer-von Mises** | **W-Sq** | 4.4570446 | **Pr > W-Sq** | <0.005 |
| **Anderson-Darling** | **A-Sq** | 21.3196296 | **Pr > A-Sq** | <0.005 |

| Quantiles for Normal Distribution | | |
|---|---|---|
| | **Quantile** | |
| **Percent** | **Observed** | **Estimated** |
| **1.0** | 0.00500 | -1789.092 |
| **5.0** | 0.02300 | -1212.665 |
| **10.0** | 0.08800 | -905.375 |
| **25.0** | 0.90000 | -391.905 |
| **50.0** | 3.55000 | 178.597 |
| **75.0** | 55.50000 | 749.098 |
| **90.0** | 199.50000 | 1262.568 |
| **95.0** | 465.00000 | 1569.859 |
| **99.0** | 6654.00000 | 2146.285 |


Linear Relationship Assumption
Brain Weight (gm)
6000
4000
2000
0
0
2000
4000
6000
Body Weight (kg)
Regression

## Check autocorrelation

### The AUTOREG Procedure

| Dependent Variable | Brain_weight |
|---|---|
| | Brain Weight (gm) |

## Check autocorrelation

### The AUTOREG Procedure

| Ordinary Least Squares Estimates | | | |
|---|---|---|---|
| **SSE** | 5385909.77 | **DFE** | 68 |
| **MSE** | 79205 | **Root MSE** | 281.43304 |
| **SBC** | 994.704494 | **AIC** | 990.207504 |
| **MAE** | 108.75741 | **AICC** | 990.386608 |
| **MAPE** | 2890.59952 | **HQC** | 991.993763 |
| | | **Total R-Square** | 0.8959 |

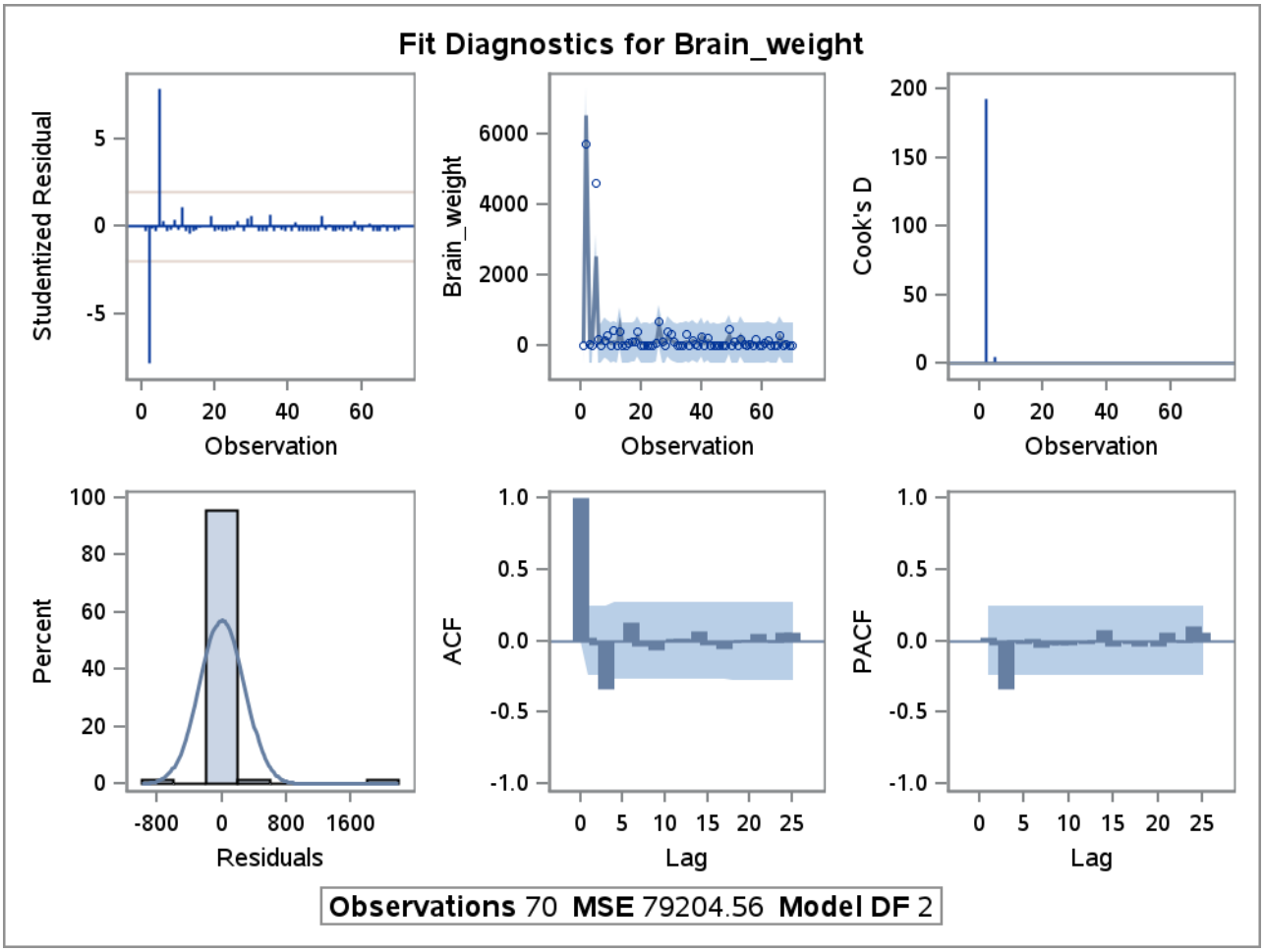
| Durbin-Watson Statistics | | | |
|---|---|---|---|
| **Order** | **DW** | **Pr < DW** | **Pr > DW** |
| **1** | 1.9544 | 0.4267 | 0.5733 |
| **2** | 1.9318 | 0.4161 | 0.5839 |
| **3** | 2.5538 | 0.9942 | 0.0058 |
| **4** | 1.8876 | 0.4406 | 0.5594 |

**NOTE: Pr<DW is the p-value for testing positive autocorrelation, and Pr>DW is the p-value for testing negative autocorrelation.**

| Parameter Estimates | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **DF** | **Estimate** | **Standard Error** | **t Value** | **Approx Pr > \|t\|** | **Variable Label** |
| **Intercept** | 1 | 74.1965 | 34.3900 | 2.16 | 0.0345 | |
| **Body_Weight** | 1 | 0.9690 | 0.0401 | 24.19 | <.0001 | Body Weight (kg) |

## Check autocorrelation

### The AUTOREG Procedure



# Regression Model with Fit Diagnostics

## The REG Procedure
## Model: MODEL1
## Dependent Variable: Brain_weight Brain Weight (gm)

| | |
|---|---|
| **Number of Observations Read** | 70 |
| **Number of Observations Used** | 70 |

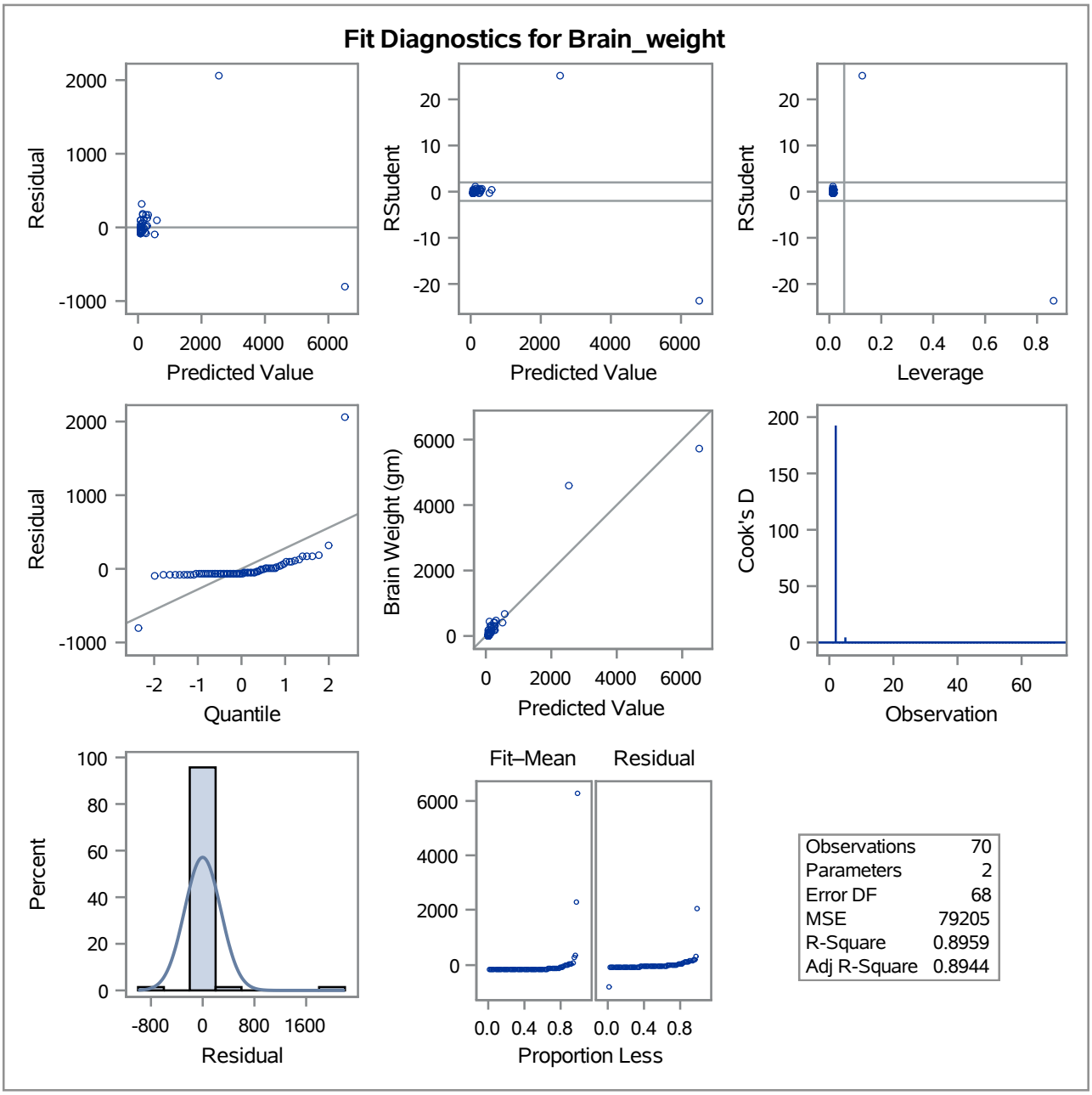
| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| **Source** | **DF** | **Sum of Squares** | **Mean Square** | **F Value** | **Pr > F** |
| **Model** | 1 | 46350396 | 46350396 | 585.20 | <.0001 |
| **Error** | 68 | 5385910 | 79205 | | |
| **Corrected Total** | 69 | 51736306 | | | |

| | | | |
|---|---|---|---|
| **Root MSE** | 281.43304 | **R-Square** | 0.8959 |
| **Dependent Mean** | 247.25527 | **Adj R-Sq** | 0.8944 |
| **Coeff Var** | 113.82287 | | |

| Parameter Estimates | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **Label** | **DF** | **Parameter Estimate** | **Standard Error** | **t Value** | **Pr > \|t\|** |
| **Intercept** | Intercept | 1 | 74.19649 | 34.38999 | 2.16 | 0.0345 |
| **Body_Weight** | Body Weight (kg) | 1 | 0.96899 | 0.04006 | 24.19 | <.0001 |

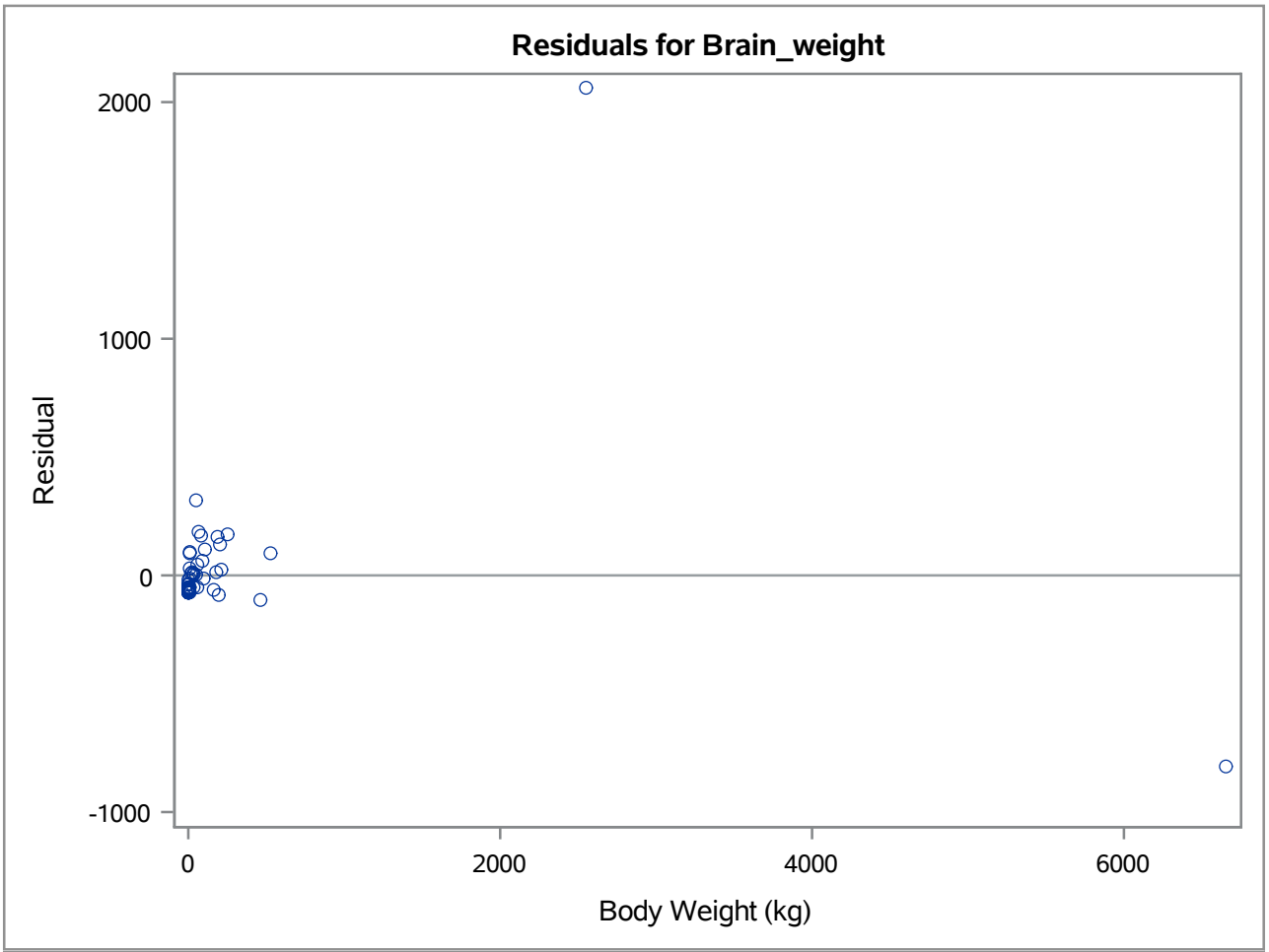
# Regression Model with Fit Diagnostics

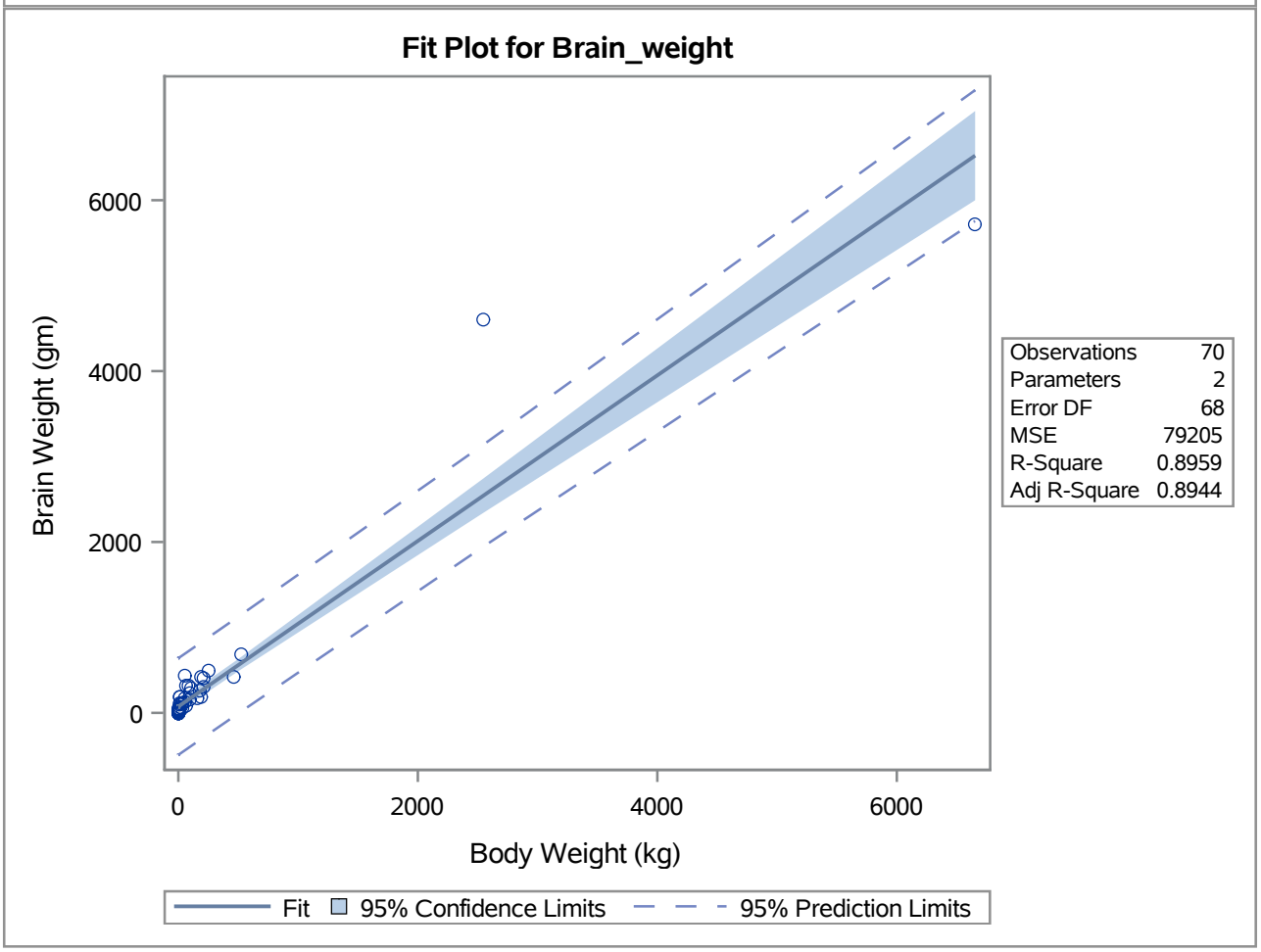
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Brain_weight Brain Weight (gm)**

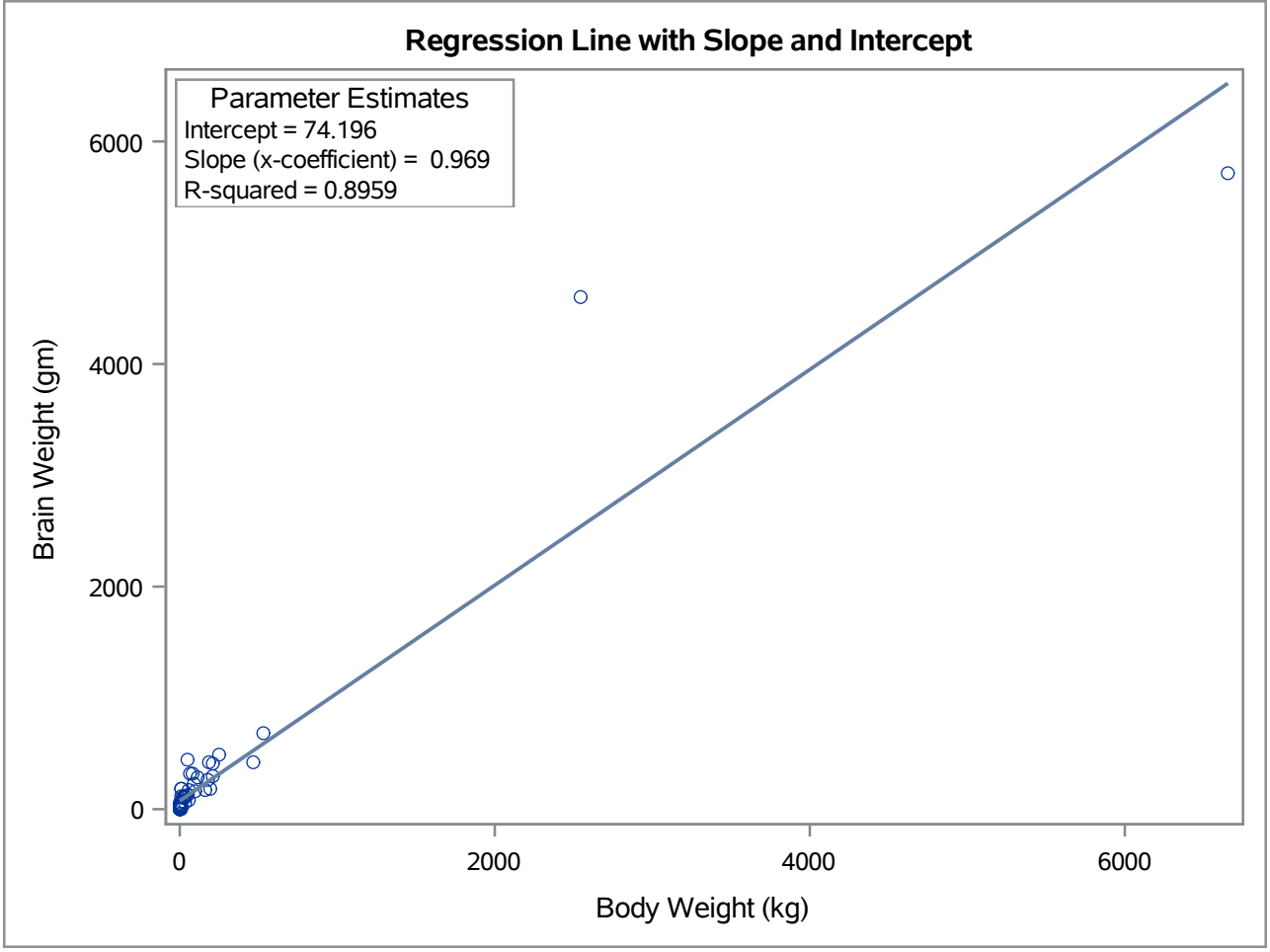


## Regression Model with Fit Diagnostics

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Brain_weight Brain Weight (gm)**




Regression Line with Slope and Intercept
Parameter Estimates
Intercept = 74.196
Slope (x-coefficient) = 0.969
R-squared = 0.8959
Brain Weight (gm)
6000
4000
2000
0
0
2000
4000
6000
Body Weight (kg)

## Test for normality of Log Y and X

### The UNIVARIATE Procedure
### Variable: log_brw

| Moments | | | |
|---|---|---|---|
| **N** | 70 | **Sum Weights** | 70 |
| **Mean** | 3.27817185 | **Sum Observations** | 229.47203 |
| **Std Deviation** | 2.31615242 | **Variance** | 5.36456204 |
| **Skewness** | -0.1467524 | **Kurtosis** | -0.3289218 |
| **Uncorrected SS** | 1122.40353 | **Corrected SS** | 370.154781 |
| **Coeff Variation** | 70.6537829 | **Std Error Mean** | 0.27683316 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 3.278172 | **Std Deviation** | 2.31615 |
| **Median** | 3.230734 | **Variance** | 5.36456 |
| **Mode** | 0.000000 | **Range** | 10.61644 |
| | | **Interquartile Range** | 3.42432 |

**Note: The mode displayed is the smallest of 3 modes with a count of 2.**

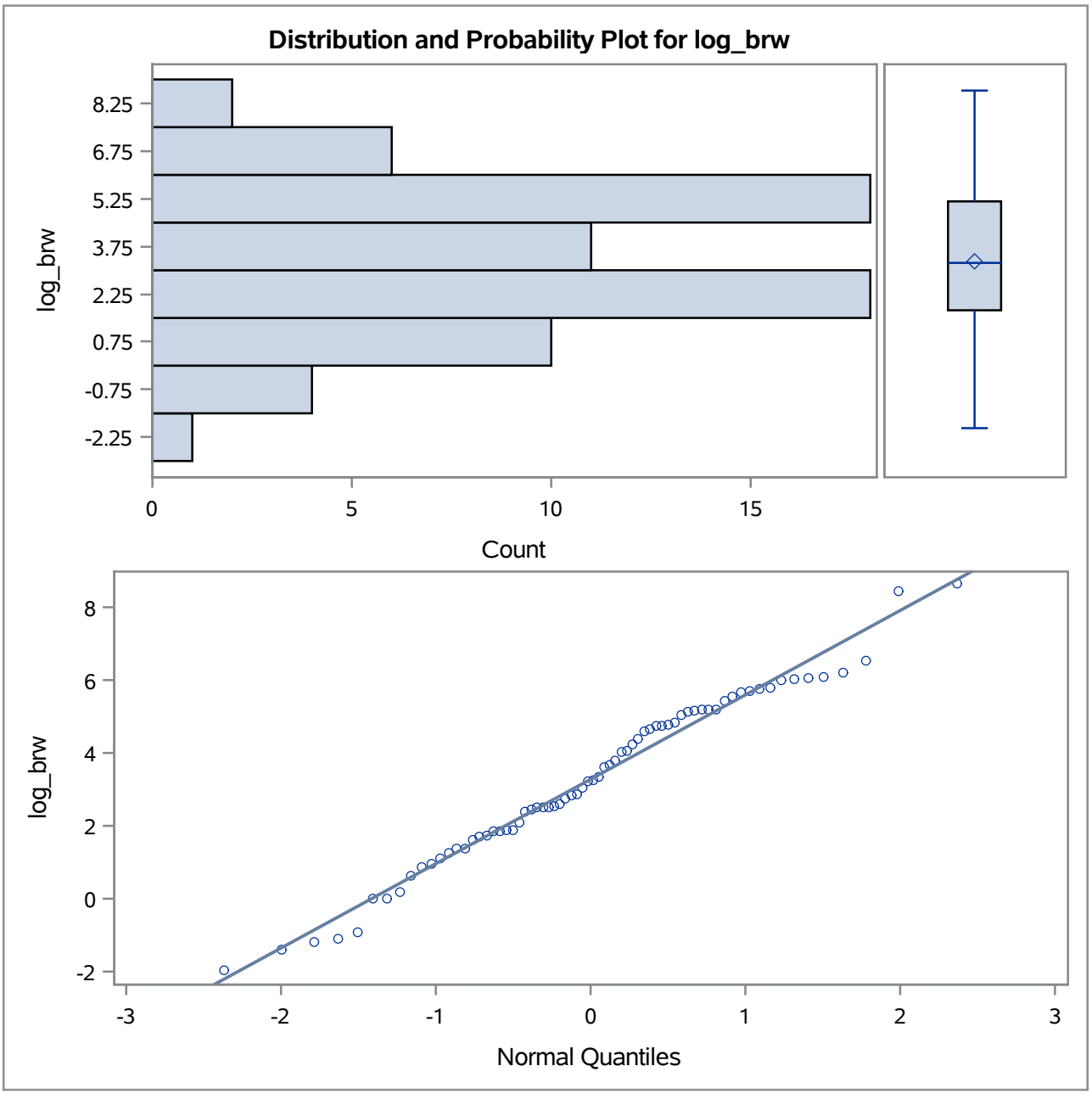
| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 11.84169 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 29 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 1122.5 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 8.6503245 |
| **99%** | 8.6503245 |
| **95%** | 6.1944054 |
| **90%** | 6.0221120 |
| **75% Q3** | 5.1647860 |
| **50% Median** | 3.2307341 |
| **25% Q1** | 1.7404662 |
| **10%** | 0.0911608 |
| **5%** | -1.1086626 |
| **1%** | -1.9661129 |
| **0% Min** | -1.9661129 |

## Test for normality of Log Y and X

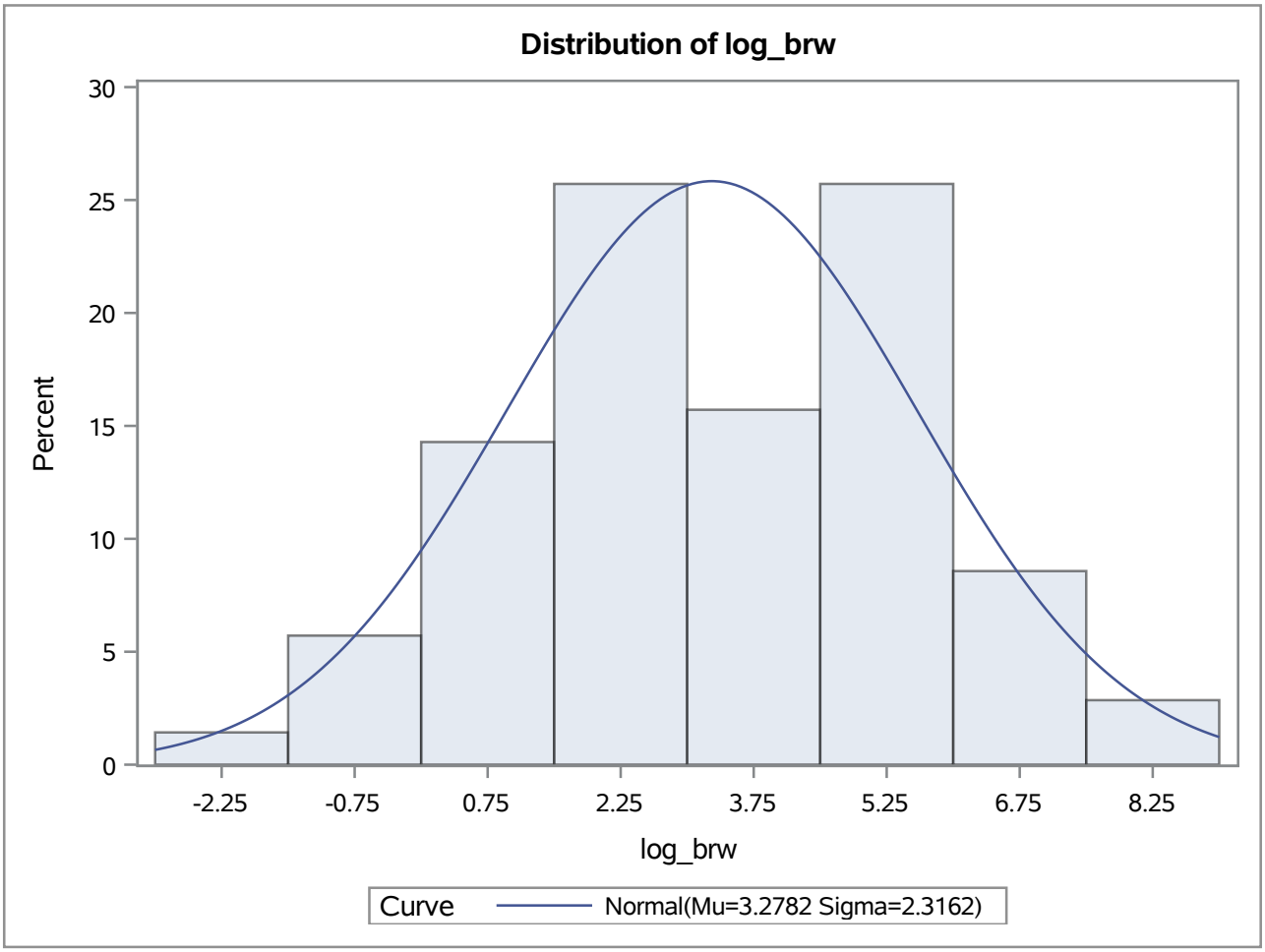
### The UNIVARIATE Procedure
### Variable: log_brw

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -1.966113 | 39 | 6.08677 | 11 |
| -1.386294 | 41 | 6.19441 | 49 |
| -1.203973 | 7 | 6.52209 | 26 |
| -1.108663 | 46 | 8.43446 | 5 |
| -0.916291 | 45 | 8.65032 | 2 |



**Test for normality of Log Y and X**

**The UNIVARIATE Procedure**



# Test for normality of Log Y and X

## The UNIVARIATE Procedure
## Fitted Normal Distribution for log_brw

| Parameters for Normal Distribution | | |
|---|---|---|
| **Parameter** | **Symbol** | **Estimate** |
| **Mean** | Mu | 3.278172 |
| **Std Dev** | Sigma | 2.316152 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Kolmogorov-Smirnov** | **D** | 0.08542227 | **Pr > D** | >0.150 |
| **Cramer-von Mises** | **W-Sq** | 0.06920965 | **Pr > W-Sq** | >0.250 |
| **Anderson-Darling** | **A-Sq** | 0.46267199 | **Pr > A-Sq** | >0.250 |

| Quantiles for Normal Distribution | | |
|---|---|---|
| | **Quantile** | |
| **Percent** | **Observed** | **Estimated** |
| **1.0** | -1.96611 | -2.11000 |
| **5.0** | -1.10866 | -0.53156 |
| **10.0** | 0.09116 | 0.30990 |
| **25.0** | 1.74047 | 1.71595 |
| **50.0** | 3.23073 | 3.27817 |
| **75.0** | 5.16479 | 4.84039 |
| **90.0** | 6.02211 | 6.24644 |
| **95.0** | 6.19441 | 7.08790 |
| **99.0** | 8.65032 | 8.66635 |

## Test for normality of Log Y and X

### The UNIVARIATE Procedure
### Variable: log_bow

| Moments | | | |
|---|---|---|---|
| **N** | 70 | **Sum Weights** | 70 |
| **Mean** | 1.61039131 | **Sum Observations** | 112.727392 |
| **Std Deviation** | 2.99267692 | **Variance** | 8.95611518 |
| **Skewness** | -0.0475829 | **Kurtosis** | -0.2875183 |
| **Uncorrected SS** | 799.50716 | **Corrected SS** | 617.971947 |
| **Coeff Variation** | 185.835387 | **Std Error Mean** | 0.35769331 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 1.61039 | **Std Deviation** | 2.99268 |
| **Median** | 1.26685 | **Variance** | 8.95612 |
| **Mode** | -3.77226 | **Range** | 14.10129 |
| | | **Interquartile Range** | 4.12174 |

**Note: The mode displayed is the smallest of 3 modes with a count of 2.**

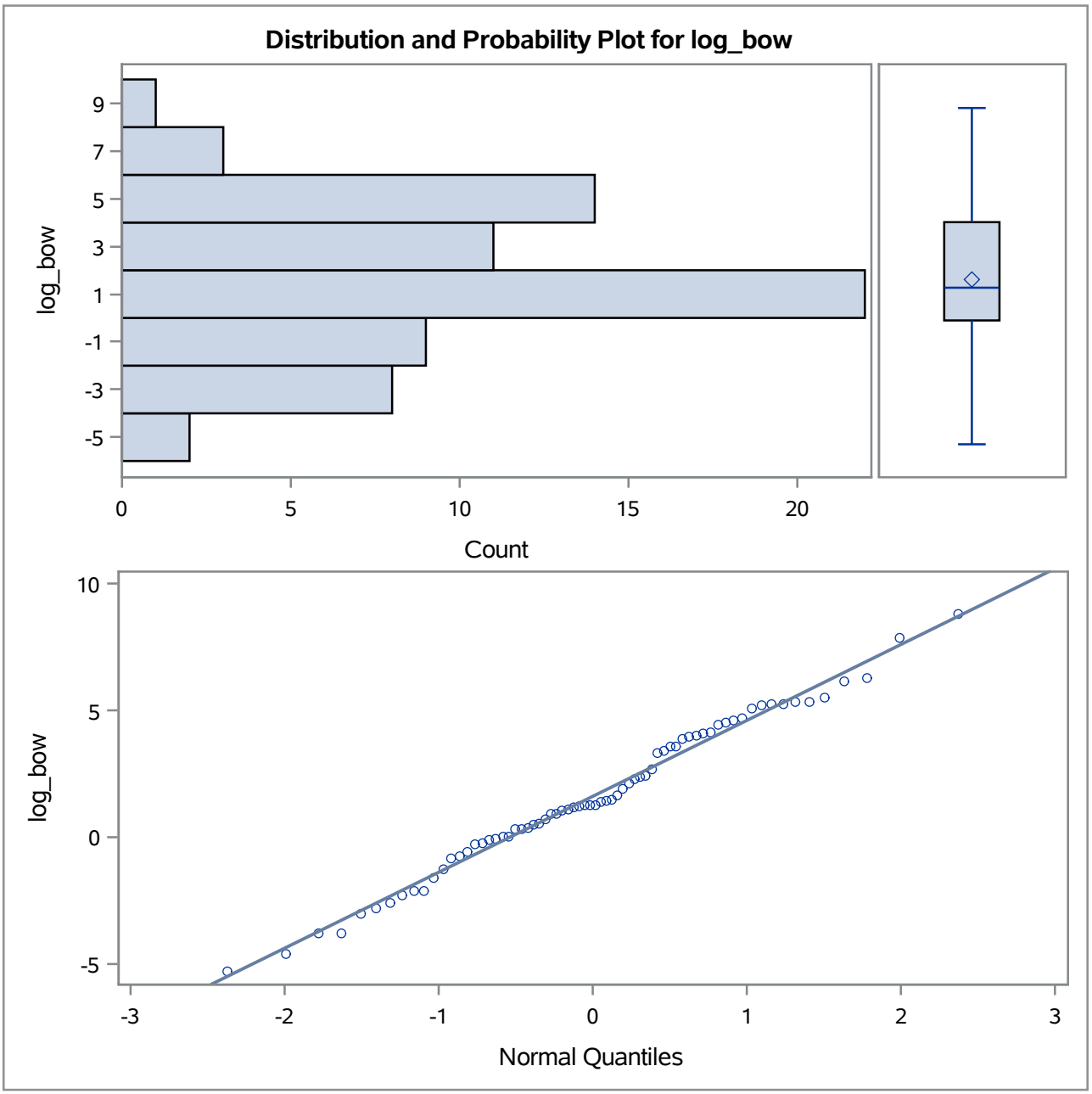
| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 4.502157 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 15.5 | **Pr >= \|M\|** | 0.0002 |
| **Signed Rank** | **S** | 678 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 8.802973 |
| **99%** | 8.802973 |
| **95%** | 6.142037 |
| **90%** | 5.295107 |
| **75% Q3** | 4.016383 |
| **50% Median** | 1.266848 |
| **25% Q1** | -0.105361 |
| **10%** | -2.441451 |
| **5%** | -3.772261 |
| **1%** | -5.298317 |
| **0% Min** | -5.298317 |

## Test for normality of Log Y and X

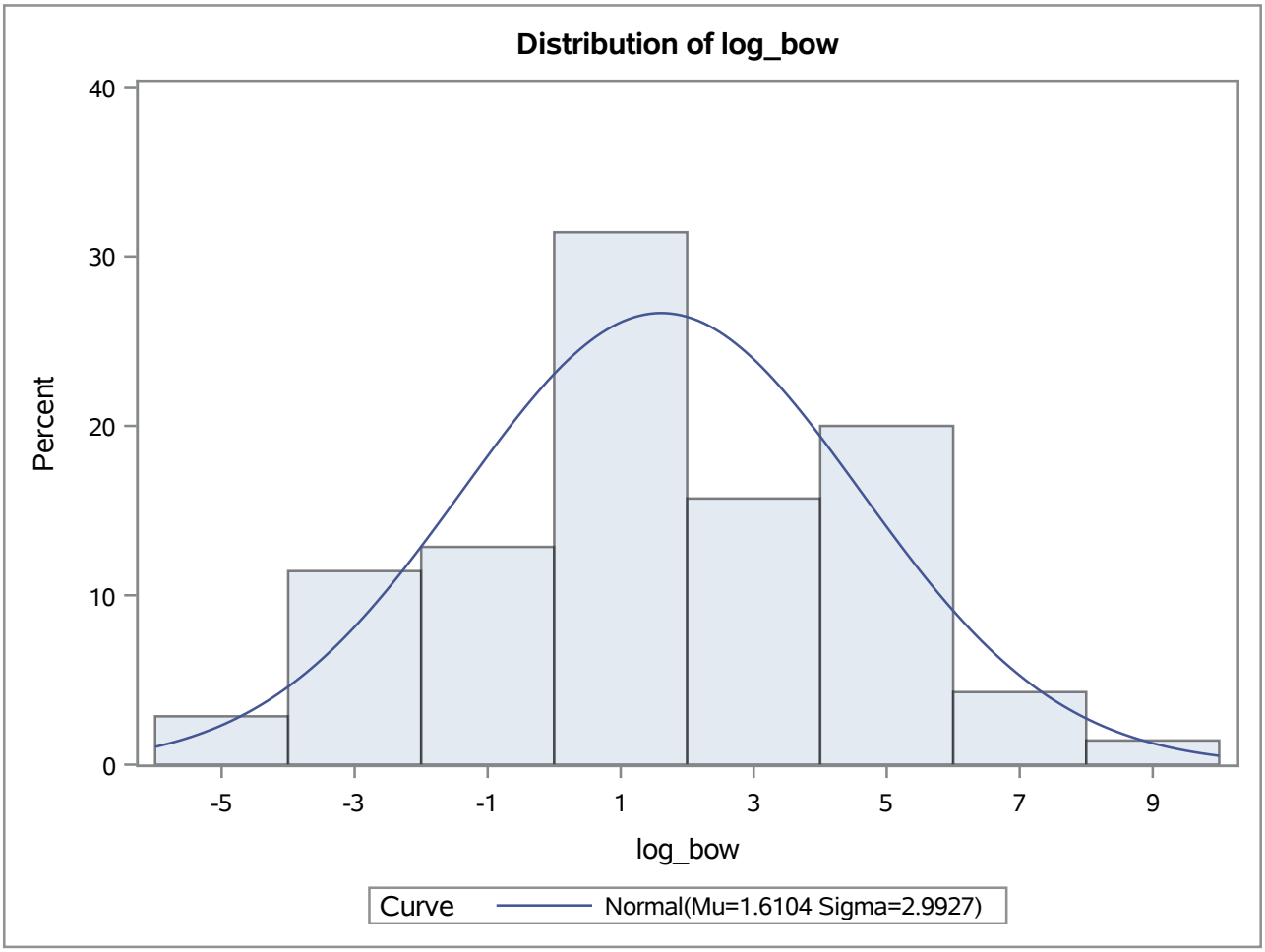
### The UNIVARIATE Procedure
### Variable: log_bow

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -5.29832 | 39 | 5.52150 | 49 |
| -4.60517 | 41 | 6.14204 | 13 |
| -3.77226 | 45 | 6.27099 | 26 |
| -3.77226 | 7 | 7.84267 | 5 |
| -3.03655 | 46 | 8.80297 | 2 |



**Test for normality of Log Y and X**

**The UNIVARIATE Procedure**



# Test for normality of Log Y and X

## The UNIVARIATE Procedure
## Fitted Normal Distribution for log_bow

| Parameters for Normal Distribution | | |
|---|---|---|
| **Parameter** | **Symbol** | **Estimate** |
| **Mean** | Mu | 1.610391 |
| **Std Dev** | Sigma | 2.992677 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Kolmogorov-Smirnov** | **D** | 0.07773895 | **Pr > D** | >0.150 |
| **Cramer-von Mises** | **W-Sq** | 0.05766192 | **Pr > W-Sq** | >0.250 |
| **Anderson-Darling** | **A-Sq** | 0.33193873 | **Pr > A-Sq** | >0.250 |

| Quantiles for Normal Distribution | | |
|---|---|---|
| | **Quantile** | |
| **Percent** | **Observed** | **Estimated** |
| **1.0** | -5.29832 | -5.35162 |
| **5.0** | -3.77226 | -3.31212 |
| **10.0** | -2.44145 | -2.22488 |
| **25.0** | -0.10536 | -0.40814 |
| **50.0** | 1.26685 | 1.61039 |
| **75.0** | 4.01638 | 3.62892 |
| **90.0** | 5.29511 | 5.44566 |
| **95.0** | 6.14204 | 6.53291 |
| **99.0** | 8.80297 | 8.57240 |

# Regression Model for Log Data with Fit Diagnostics

## The REG Procedure
## Model: MODEL1
## Dependent Variable: log_brw

| | |
|---|---|
| **Number of Observations Read** | 70 |
| **Number of Observations Used** | 70 |

**Analysis of Variance**

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 342.44969 | 342.44969 | 840.52 | <.0001 |
| **Error** | 68 | 27.70509 | 0.40743 | | |
| **Corrected Total** | 69 | 370.15478 | | | |

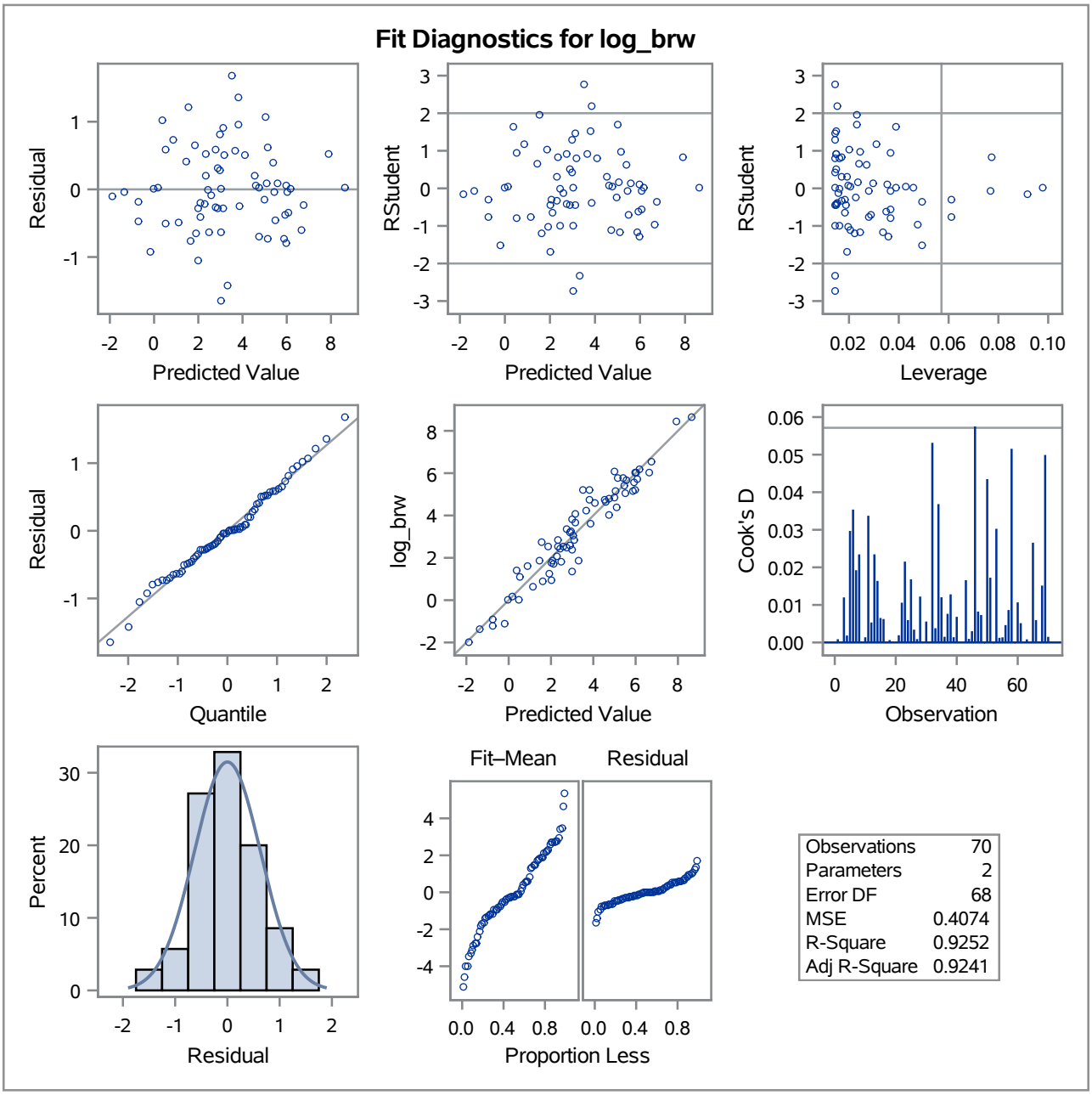
| | | | |
|---|---|---|---|
| **Root MSE** | 0.63830 | **R-Square** | 0.9252 |
| **Dependent Mean** | 3.27817 | **Adj R-Sq** | 0.9241 |
| **Coeff Var** | 19.47124 | | |

**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | 2.07938 | 0.08678 | 23.96 | <.0001 |
| **log_bow** | 1 | 0.74441 | 0.02568 | 28.99 | <.0001 |

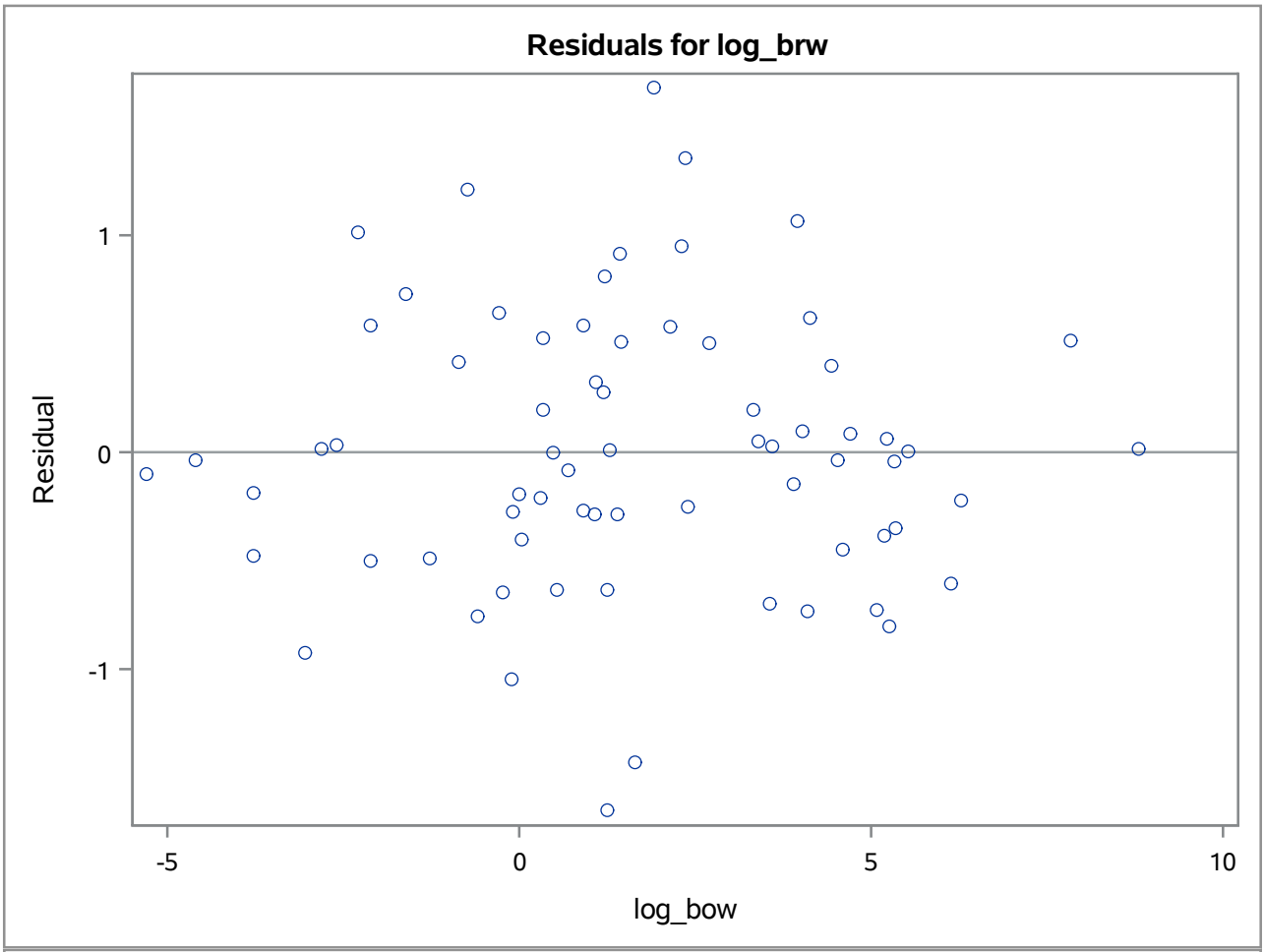
# Regression Model for Log Data with Fit Diagnostics

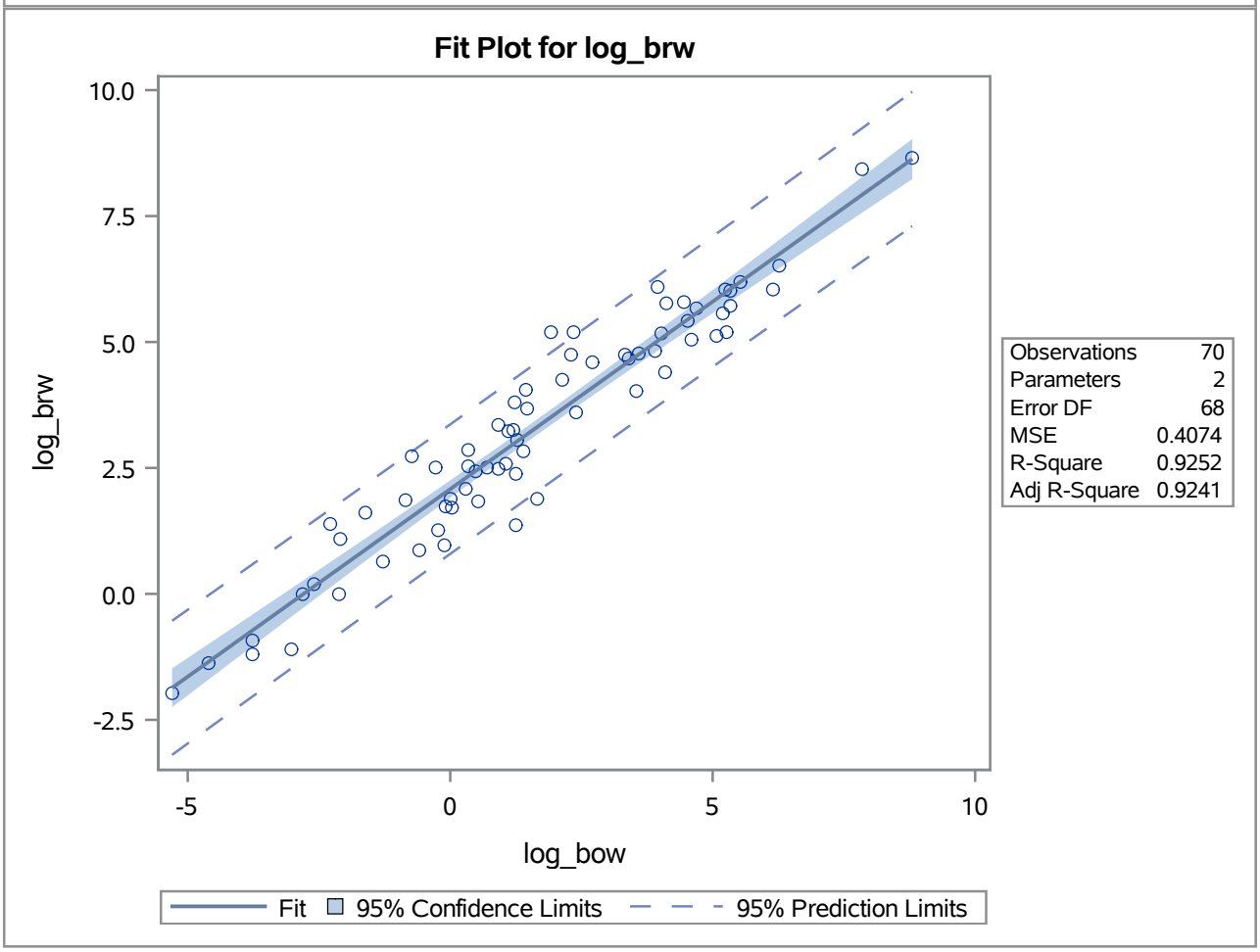
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: log_brw**



# Regression Model for Log Data with Fit Diagnostics

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



## Check autocorrelation (Log Data)

### The AUTOREG Procedure

| Dependent Variable | log_brw |
|---|---|

## Check autocorrelation (Log Data)

### The AUTOREG Procedure

| Ordinary Least Squares Estimates | | | |
|---|---|---|---|
| **SSE** | 27.705092 | **DFE** | 68 |
| **MSE** | 0.40743 | **Root MSE** | 0.63830 |
| **SBC** | 142.266854 | **AIC** | 137.769863 |
| **MAE** | 0.48539617 | **AICC** | 137.948968 |
| **MAPE** | 21.9915055 | **HQC** | 139.556123 |
| | | **Total R-Square** | 0.9252 |

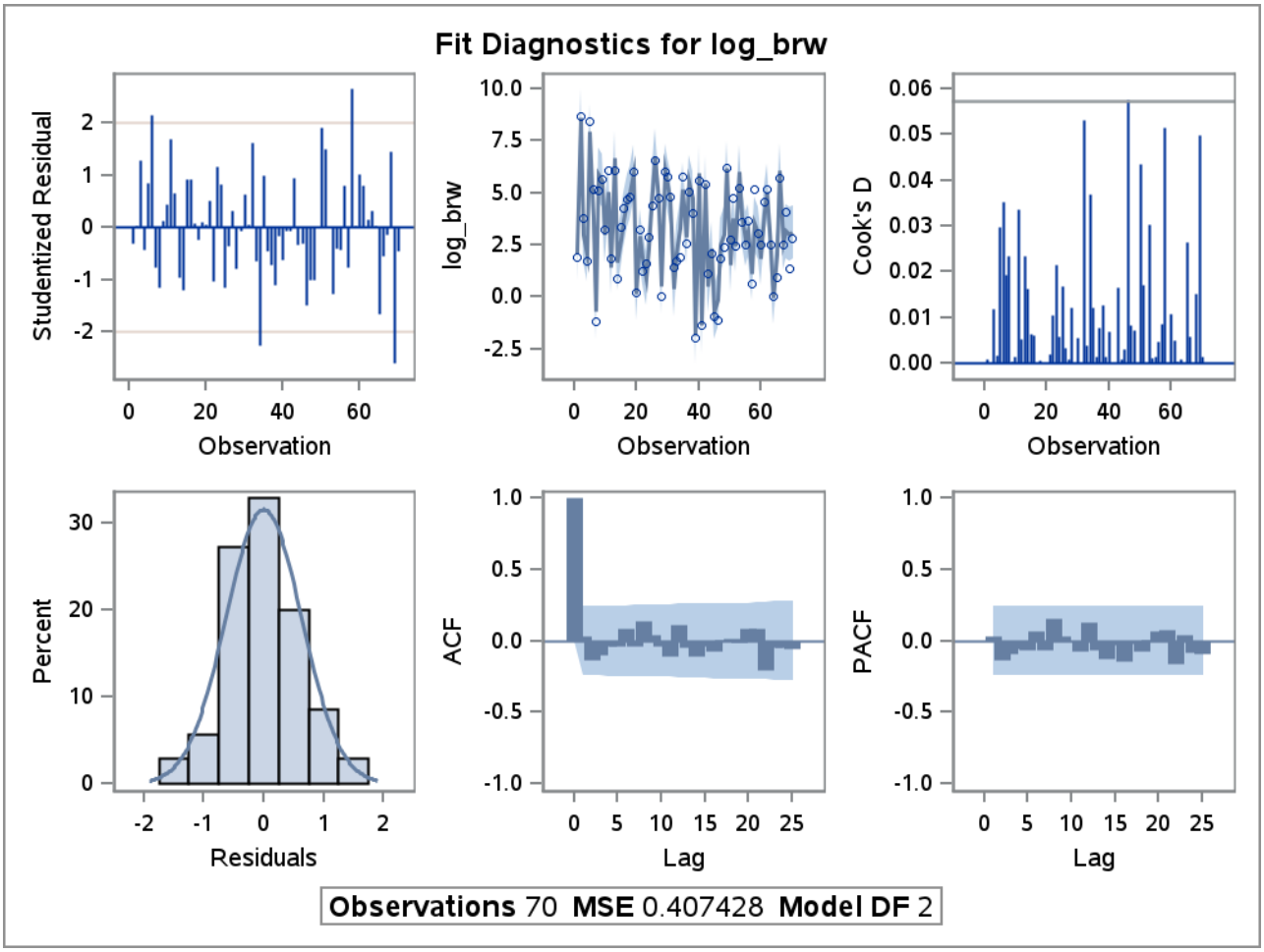
| Durbin-Watson Statistics | | | |
|---|---|---|---|
| **Order** | **DW** | **Pr < DW** | **Pr > DW** |
| **1** | 1.9310 | 0.3933 | 0.6067 |
| **2** | 2.1742 | 0.8036 | 0.1964 |
| **3** | 2.0444 | 0.6680 | 0.3320 |
| **4** | 1.9151 | 0.5018 | 0.4982 |

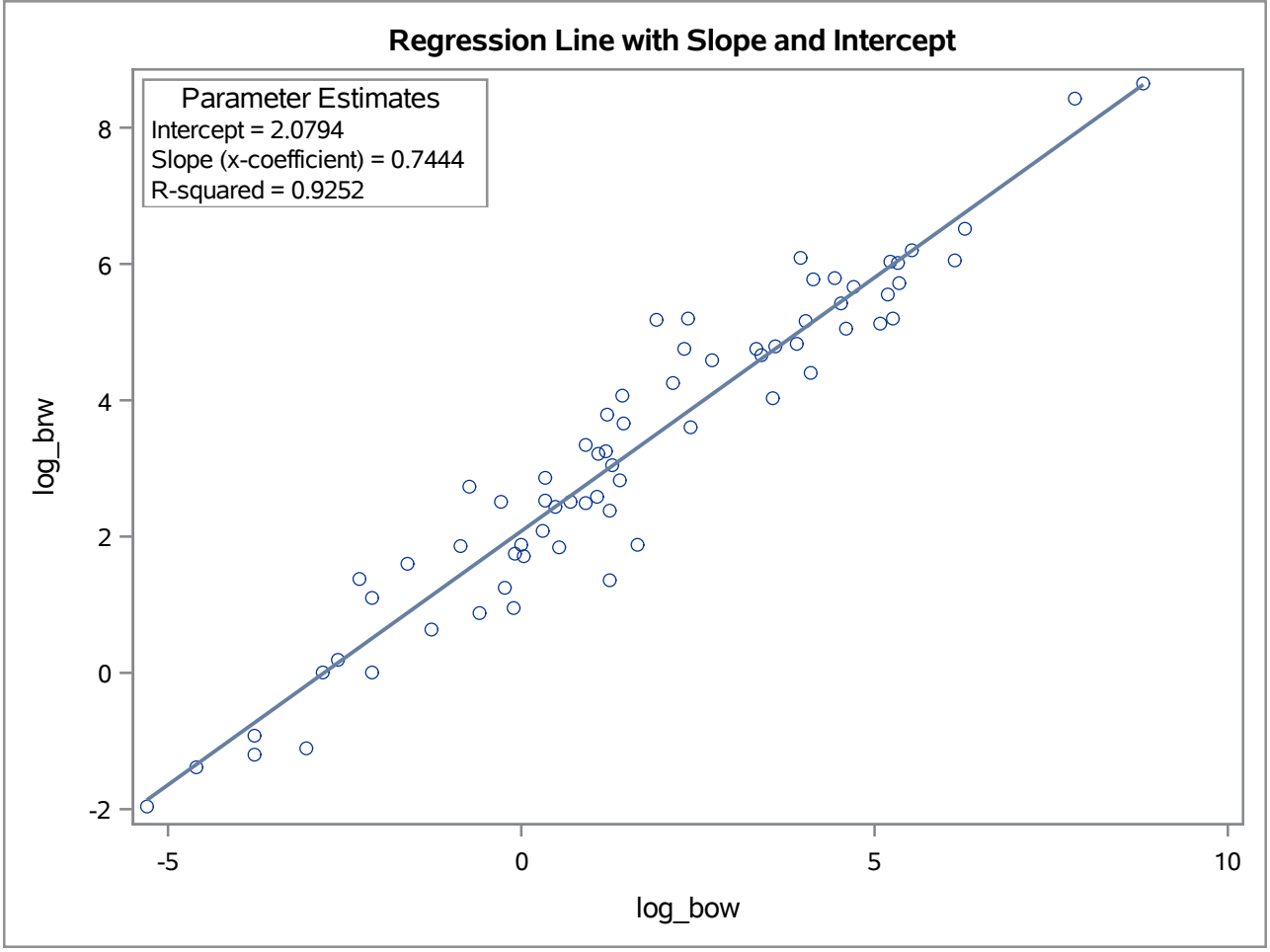
**NOTE: Pr<DW is the p-value for testing positive autocorrelation, and Pr>DW is the p-value for testing negative autocorrelation.**

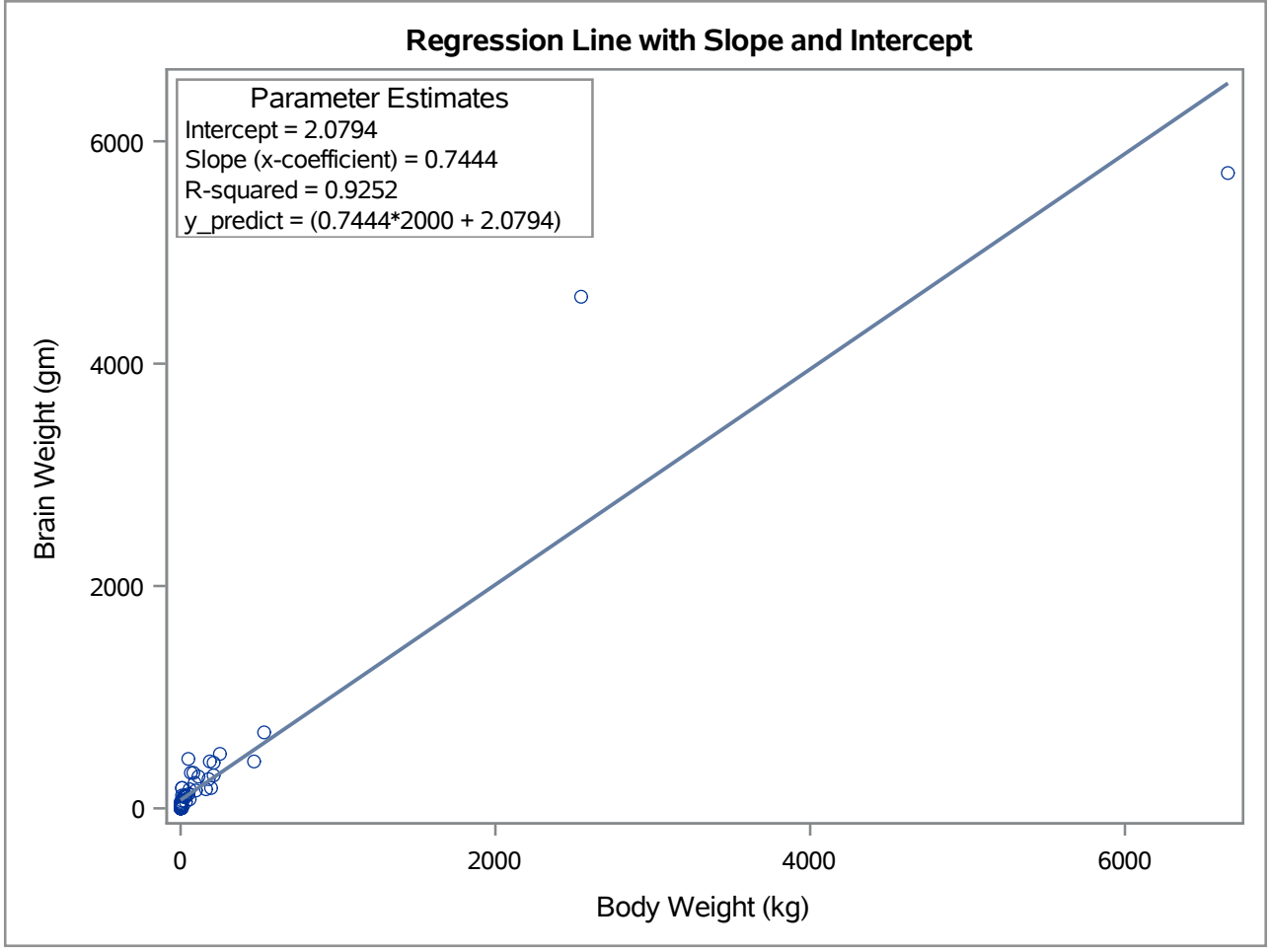
| Parameter Estimates | | | | | |
|---|---|---|---|---|---|
| **Variable** | **DF** | **Estimate** | **Standard Error** | **t Value** | **Approx Pr > \|t\|** |
| **Intercept** | 1 | 2.0794 | 0.0868 | 23.96 | <.0001 |
| **log_bow** | 1 | 0.7444 | 0.0257 | 28.99 | <.0001 |

## Check autocorrelation (Log Data)

### The AUTOREG Procedure




Regression Line with Slope and Intercept
Parameter Estimates
Intercept = 2.0794
Slope (x-coefficient) = 0.7444
R-squared = 0.9252
log_brw
log_bow
8
6
4
2
0
-2
-5
0
5
10


Regression Line with Slope and Intercept
Parameter Estimates
Intercept = 2.0794
Slope (x-coefficient) = 0.7444
R-squared = 0.9252
y_predict = (0.7444*2000 + 2.0794)
Brain Weight (gm)
6000
4000
2000
0
0
2000
4000
6000
Body Weight (kg)