# The UNIVARIATE Procedure
## Variable: car_number

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 27.3243243 | **Sum Observations** | 90990 |
| **Std Deviation** | 23.5729359 | **Variance** | 555.683307 |
| **Skewness** | 1.13432567 | **Kurtosis** | 0.85379384 |
| **Uncorrected SS** | 4336110 | **Corrected SS** | 1849869.73 |
| **Coeff Variation** | 86.2708831 | **Std Error Mean** | 0.40849953 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 27.32432 | **Std Deviation** | 23.57294 |
| **Median** | 20.00000 | **Variance** | 555.68331 |
| **Mode** | 0.00000 | **Range** | 99.00000 |
| | | **Interquartile Range** | 33.00000 |

**Note: The mode displayed is the smallest of 37 modes with a count of 90.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 66.88949 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1620 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2625210 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 99 |
| **99%** | 99 |
| **95%** | 78 |
| **90%** | 53 |
| **75% Q3** | 42 |
| **50% Median** | 20 |
| **25% Q1** | 9 |
| **10%** | 3 |
| **5%** | 1 |
| **1%** | 0 |
| **0% Min** | 0 |

## The UNIVARIATE Procedure
## Variable: car_number

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0 | 2880 | 99 | 2786 |
| 0 | 2879 | 99 | 2787 |
| 0 | 2878 | 99 | 2788 |
| 0 | 2877 | 99 | 2789 |
| 0 | 2876 | 99 | 2790 |

## The UNIVARIATE Procedure
## Variable: start

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 19 | **Sum Observations** | 63270 |
| **Std Deviation** | 10.6786818 | **Variance** | 114.034245 |
| **Skewness** | 0 | **Kurtosis** | -1.2017568 |
| **Uncorrected SS** | 1581750 | **Corrected SS** | 379620 |
| **Coeff Variation** | 56.2035883 | **Std Error Mean** | 0.18505274 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 19.00000 | **Std Deviation** | 10.67868 |
| **Median** | 19.00000 | **Variance** | 114.03424 |
| **Mode** | 1.00000 | **Range** | 36.00000 |
| | | **Interquartile Range** | 18.00000 |

**Note: The mode displayed is the smallest of 37 modes with a count of 90.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 102.6734 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1665 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2773058 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 37 |
| **99%** | 37 |
| **95%** | 36 |
| **90%** | 34 |
| **75% Q3** | 28 |
| **50% Median** | 19 |
| **25% Q1** | 10 |
| **10%** | 4 |
| **5%** | 2 |
| **1%** | 1 |
| **0% Min** | 1 |

## The UNIVARIATE Procedure
## Variable: start

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1 | 3150 | 37 | 3056 |
| 1 | 3149 | 37 | 3057 |
| 1 | 3148 | 37 | 3058 |
| 1 | 3147 | 37 | 3059 |
| 1 | 3146 | 37 | 3060 |

## The UNIVARIATE Procedure
## Variable: finish

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 19 | **Sum Observations** | 63270 |
| **Std Deviation** | 10.6786818 | **Variance** | 114.034245 |
| **Skewness** | 0 | **Kurtosis** | -1.2017568 |
| **Uncorrected SS** | 1581750 | **Corrected SS** | 379620 |
| **Coeff Variation** | 56.2035883 | **Std Error Mean** | 0.18505274 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 19.00000 | **Std Deviation** | 10.67868 |
| **Median** | 19.00000 | **Variance** | 114.03424 |
| **Mode** | 1.00000 | **Range** | 36.00000 |
| | | **Interquartile Range** | 18.00000 |

**Note: The mode displayed is the smallest of 37 modes with a count of 90.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 102.6734 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1665 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2773058 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 37 |
| **99%** | 37 |
| **95%** | 36 |
| **90%** | 34 |
| **75% Q3** | 28 |
| **50% Median** | 19 |
| **25% Q1** | 10 |
| **10%** | 4 |
| **5%** | 2 |
| **1%** | 1 |
| **0% Min** | 1 |

## The UNIVARIATE Procedure
## Variable: finish

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1 | 90 | 37 | 3326 |
| 1 | 89 | 37 | 3327 |
| 1 | 88 | 37 | 3328 |
| 1 | 87 | 37 | 3329 |
| 1 | 86 | 37 | 3330 |

## The UNIVARIATE Procedure
## Variable: points

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 20.8648649 | **Sum Observations** | 69480 |
| **Std Deviation** | 14.4789256 | **Variance** | 209.639288 |
| **Skewness** | 0.35576023 | **Kurtosis** | -0.7788666 |
| **Uncorrected SS** | 2147580 | **Corrected SS** | 697889.189 |
| **Coeff Variation** | 69.3938146 | **Std Error Mean** | 0.25090783 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 20.86486 | **Std Deviation** | 14.47893 |
| **Median** | 20.00000 | **Variance** | 209.63929 |
| **Mode** | 0.00000 | **Range** | 56.00000 |
| | | **Interquartile Range** | 25.00000 |

**Note: The mode displayed is the smallest of 8 modes with a count of 180.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 83.15749 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1575 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2481413 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 56 |
| **99%** | 56 |
| **95%** | 44 |
| **90%** | 39 |
| **75% Q3** | 34 |
| **50% Median** | 20 |
| **25% Q1** | 9 |
| **10%** | 2 |
| **5%** | 0 |
| **1%** | 0 |
| **0% Min** | 0 |

## The UNIVARIATE Procedure
## Variable: points

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0 | 3240 | 56 | 86 |
| 0 | 3239 | 56 | 87 |
| 0 | 3238 | 56 | 88 |
| 0 | 3237 | 56 | 89 |
| 0 | 3236 | 56 | 90 |

## The UNIVARIATE Procedure
## Variable: lap

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 45.5 | **Sum Observations** | 151515 |
| **Std Deviation** | 25.98306 | **Variance** | 675.119405 |
| **Skewness** | 0 | **Kurtosis** | -1.2002966 |
| **Uncorrected SS** | 9141405 | **Corrected SS** | 2247472.5 |
| **Coeff Variation** | 57.1056263 | **Std Error Mean** | 0.45026499 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 45.50000 | **Std Deviation** | 25.98306 |
| **Median** | 45.50000 | **Variance** | 675.11941 |
| **Mode** | 1.00000 | **Range** | 89.00000 |
| | | **Interquartile Range** | 45.00000 |

**Note: The mode displayed is the smallest of 90 modes with a count of 37.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 101.0516 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1665 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2773058 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 90.0 |
| **99%** | 90.0 |
| **95%** | 86.0 |
| **90%** | 81.5 |
| **75% Q3** | 68.0 |
| **50% Median** | 45.5 |
| **25% Q1** | 23.0 |
| **10%** | 9.5 |
| **5%** | 5.0 |
| **1%** | 1.0 |
| **0% Min** | 1.0 |

## The UNIVARIATE Procedure
## Variable: lap

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1 | 3241 | 90 | 2970 |
| 1 | 3151 | 90 | 3060 |
| 1 | 3061 | 90 | 3150 |
| 1 | 2971 | 90 | 3240 |
| 1 | 2881 | 90 | 3330 |

## The UNIVARIATE Procedure
## Variable: lap_time

| Moments | | | |
|---|---|---|---|
| **N** | 3261 | **Sum Weights** | 3261 |
| **Mean** | 88.9284916 | **Sum Observations** | 289995.811 |
| **Std Deviation** | 46.7217624 | **Variance** | 2182.92308 |
| **Skewness** | 13.7120689 | **Kurtosis** | 349.915013 |
| **Uncorrected SS** | 32905219.3 | **Corrected SS** | 7116329.25 |
| **Coeff Variation** | 52.5385752 | **Std Error Mean** | 0.8181705 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 88.92849 | **Std Deviation** | 46.72176 |
| **Median** | 75.83400 | **Variance** | 2183 |
| **Mode** | 74.37200 | **Range** | 1384 |
| | | **Interquartile Range** | 2.69900 |

**Note: The mode displayed is the smallest of 4 modes with a count of 5.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 108.6919 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1630.5 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2659346 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 1456.188 |
| **99%** | 210.853 |
| **95%** | 196.956 |
| **90%** | 126.720 |
| **75% Q3** | 77.777 |
| **50% Median** | 75.834 |
| **25% Q1** | 75.078 |
| **10%** | 74.484 |
| **5%** | 74.193 |
| **1%** | 73.688 |
| **0% Min** | 72.633 |

## The UNIVARIATE Procedure
## Variable: lap_time

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 72.633 | 123 | 219.845 | 112 |
| 72.745 | 122 | 220.370 | 292 |
| 73.018 | 45 | 221.905 | 22 |
| 73.020 | 569 | 1268.675 | 3264 |
| 73.235 | 363 | 1456.188 | 3269 |

| Missing Values | | | |
|---|---|---|---|
| | | Percent Of | |
| Missing Value | Count | All Obs | Missing Obs |
| . | 69 | 2.07 | 100.00 |

## The UNIVARIATE Procedure
## Variable: lap_speed

| Moments | | | |
|---|---|---|---|
| **N** | 3261 | **Sum Weights** | 3261 |
| **Mean** | 108.07813 | **Sum Observations** | 352442.782 |
| **Std Deviation** | 21.1919837 | **Variance** | 449.100175 |
| **Skewness** | -2.4292746 | **Kurtosis** | 4.39663457 |
| **Uncorrected SS** | 39555423.4 | **Corrected SS** | 1464066.57 |
| **Coeff Variation** | 19.6080222 | **Std Error Mean** | 0.37110449 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 108.0781 | **Std Deviation** | 21.19198 |
| **Median** | 116.3070 | **Variance** | 449.10017 |
| **Mode** | 116.5910 | **Range** | 115.37500 |
| | | **Interquartile Range** | 4.07700 |

**Note: The mode displayed is the smallest of 4 modes with a count of 5.**

| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 291.2337 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1630.5 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2659346 | **Pr >= \|S\|** | <.0001 |

| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 121.432 |
| **99%** | 119.694 |
| **95%** | 118.879 |
| **90%** | 118.415 |
| **75% Q3** | 117.478 |
| **50% Median** | 116.307 |
| **25% Q1** | 113.401 |
| **10%** | 69.602 |
| **5%** | 44.782 |
| **1%** | 41.830 |
| **0% Min** | 6.057 |

## The UNIVARIATE Procedure
## Variable: lap_speed

| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 6.057 | 3269 | 120.434 | 363 |
| 6.952 | 3264 | 120.789 | 569 |
| 39.747 | 22 | 120.792 | 45 |
| 40.024 | 292 | 121.245 | 122 |
| 40.119 | 112 | 121.432 | 123 |

| Missing Values | | | |
|---|---|---|---|
| | | Percent Of | |
| Missing Value | Count | All Obs | Missing Obs |
| . | 69 | 2.07 | 100.00 |

## The UNIVARIATE Procedure
## Variable: running_position

| Moments | | | |
|---|---|---|---|
| **N** | 3330 | **Sum Weights** | 3330 |
| **Mean** | 19 | **Sum Observations** | 63270 |
| **Std Deviation** | 10.6786818 | **Variance** | 114.034245 |
| **Skewness** | 0 | **Kurtosis** | -1.2017568 |
| **Uncorrected SS** | 1581750 | **Corrected SS** | 379620 |
| **Coeff Variation** | 56.2035883 | **Std Error Mean** | 0.18505274 |

| Basic Statistical Measures | | | |
|---|---|---|---|
| **Location** | | **Variability** | |
| **Mean** | 19.00000 | **Std Deviation** | 10.67868 |
| **Median** | 19.00000 | **Variance** | 114.03424 |
| **Mode** | 1.00000 | **Range** | 36.00000 |
| | | **Interquartile Range** | 18.00000 |

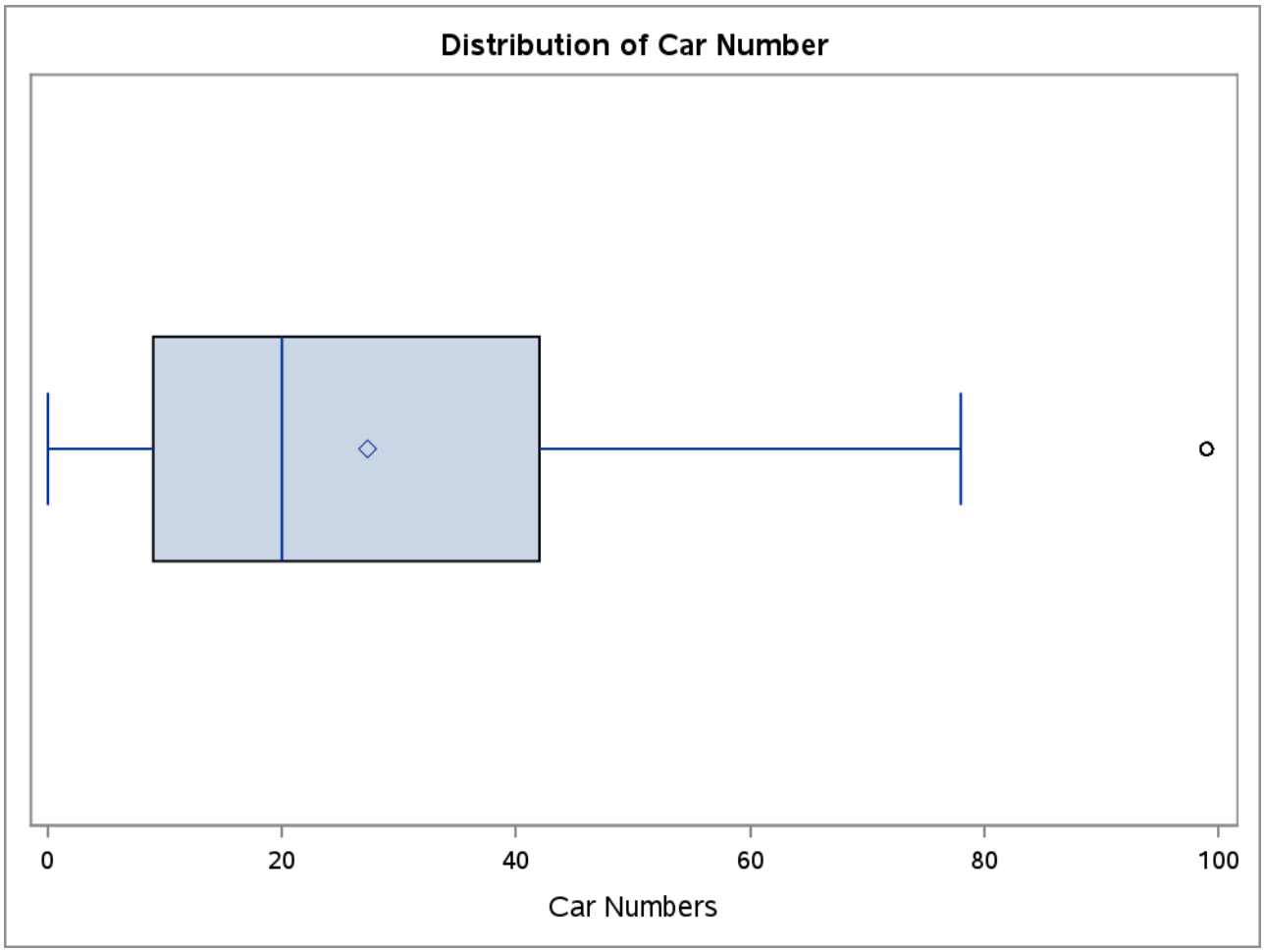
**Note: The mode displayed is the smallest of 37 modes with a count of 90.**

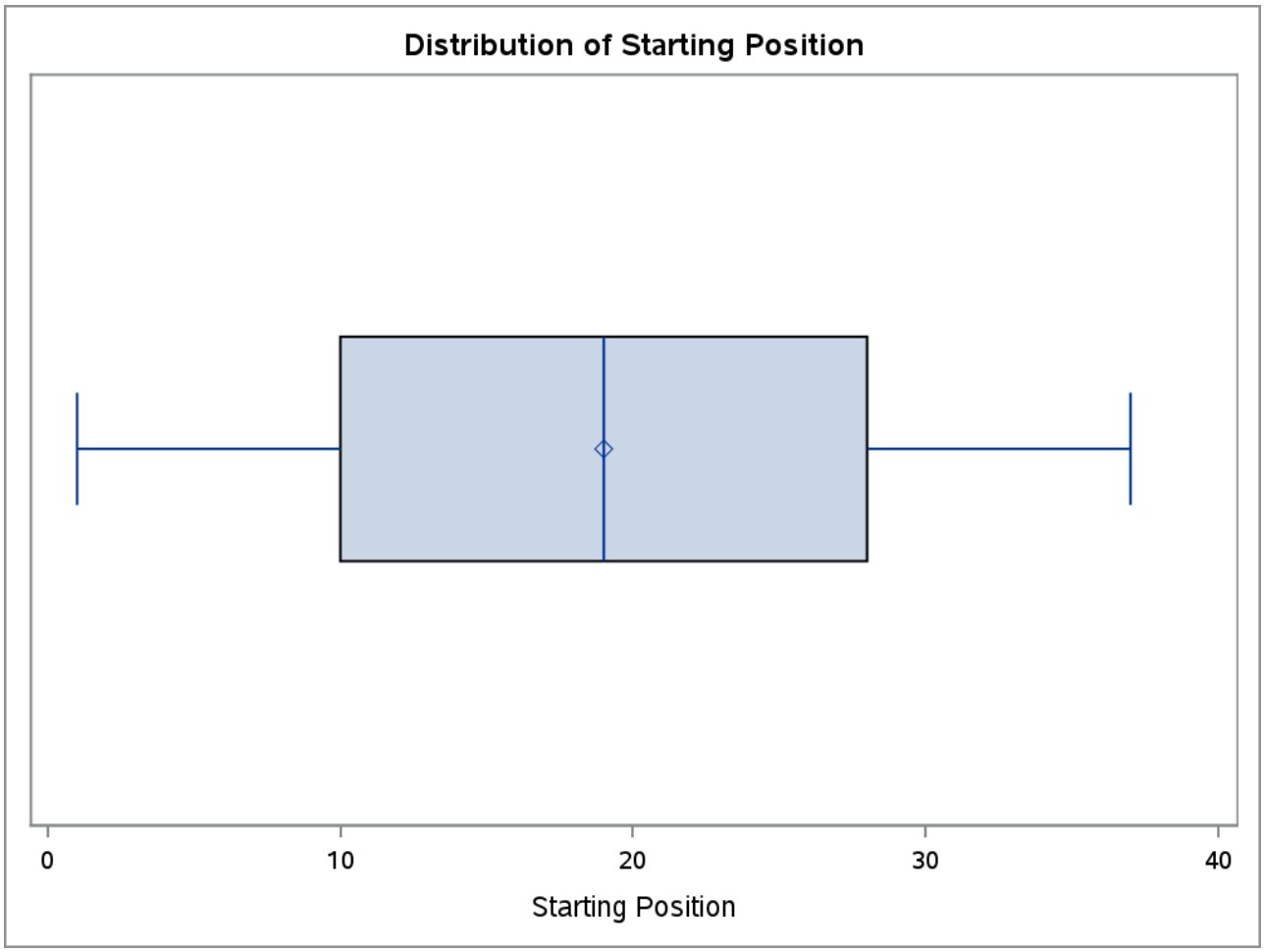
| Tests for Location: Mu0=0 | | | | |
|---|---|---|---|---|
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 102.6734 | **Pr > \|t\|** | <.0001 |
| **Sign** | **M** | 1665 | **Pr >= \|M\|** | <.0001 |
| **Signed Rank** | **S** | 2773058 | **Pr >= \|S\|** | <.0001 |

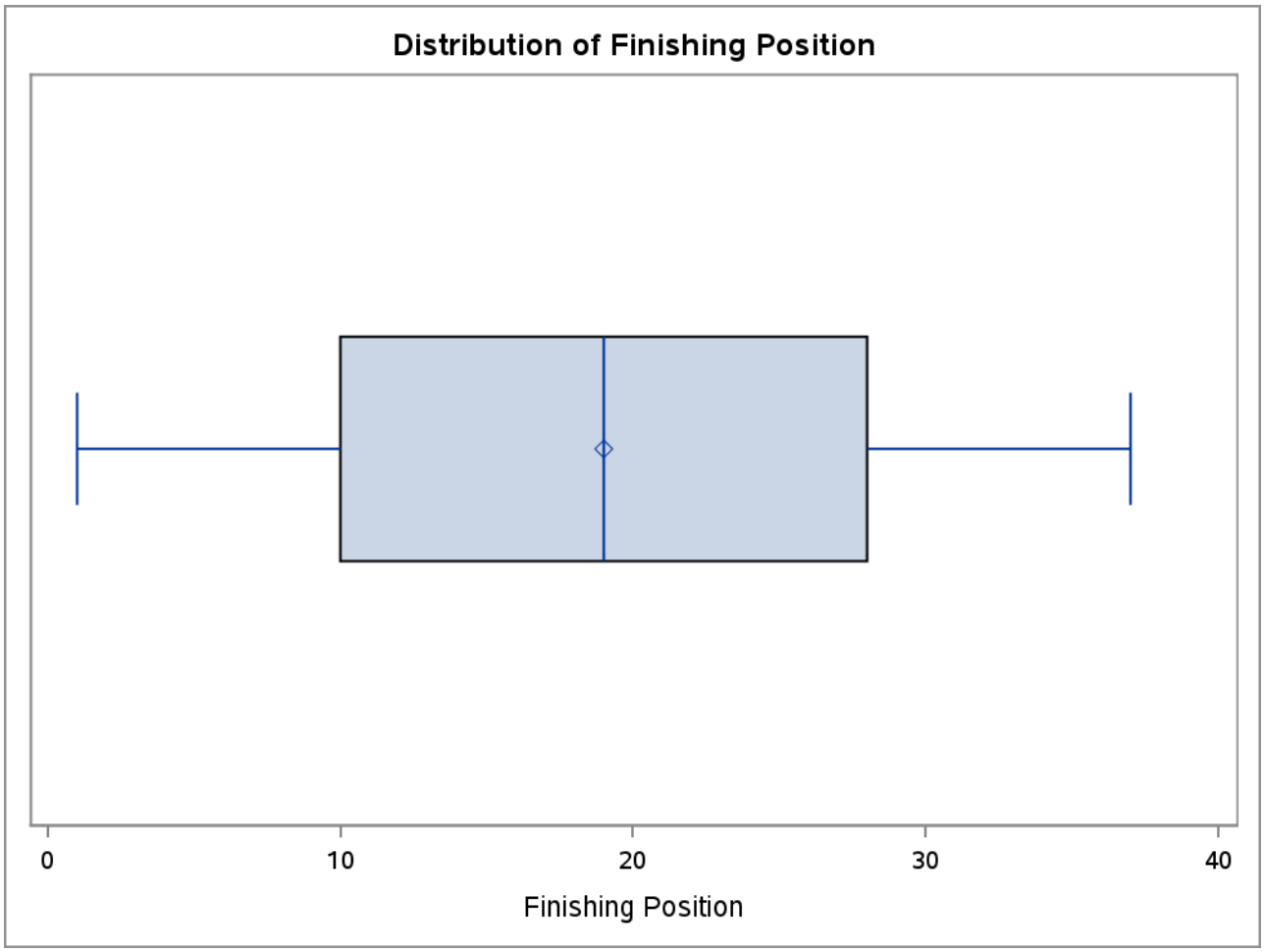
| Quantiles (Definition 5) | |
|---|---|
| **Level** | **Quantile** |
| **100% Max** | 37 |
| **99%** | 37 |
| **95%** | 36 |
| **90%** | 34 |
| **75% Q3** | 28 |
| **50% Median** | 19 |
| **25% Q1** | 10 |
| **10%** | 4 |
| **5%** | 2 |
| **1%** | 1 |
| **0% Min** | 1 |

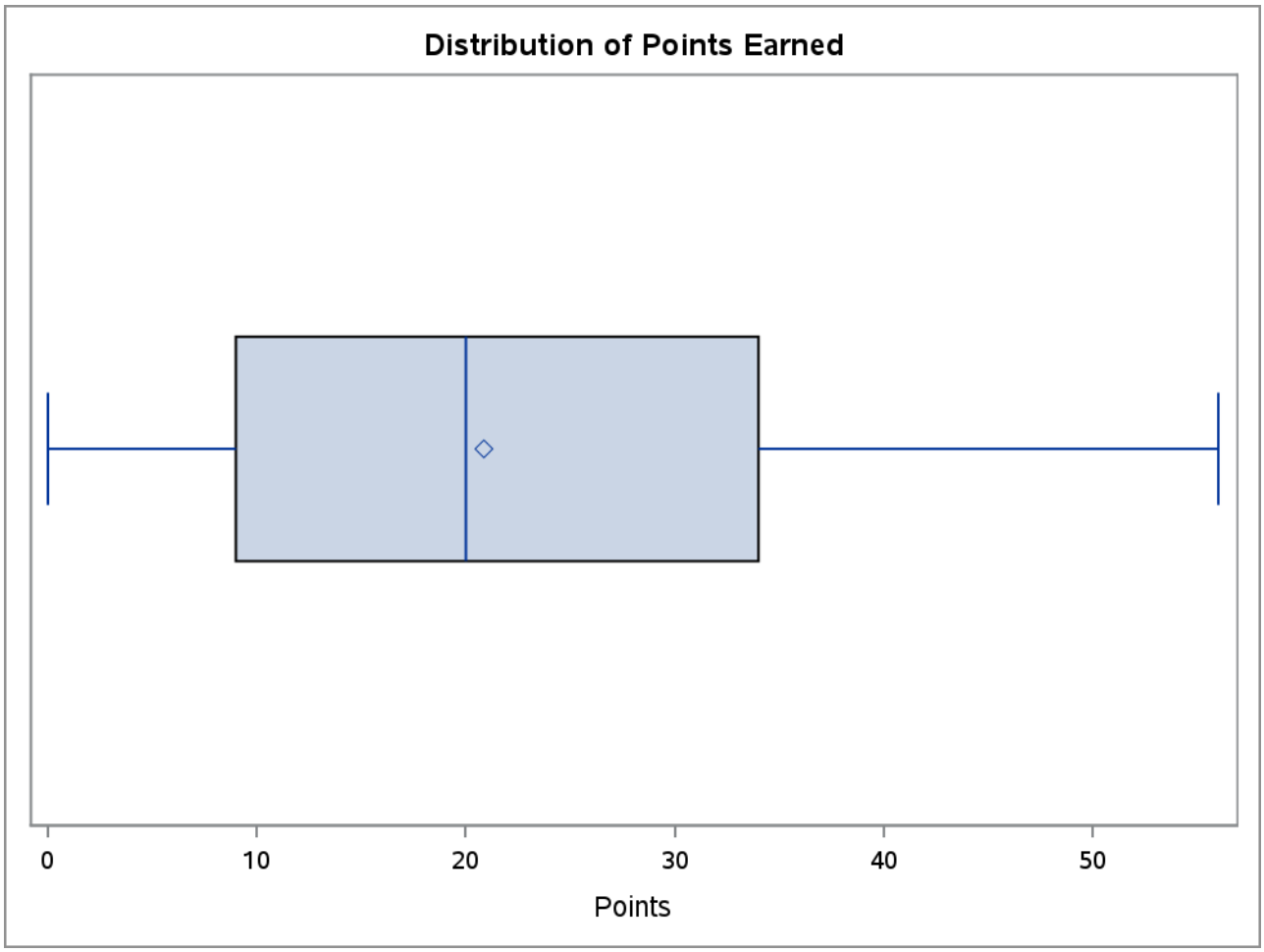
## The UNIVARIATE Procedure
## Variable: running_position

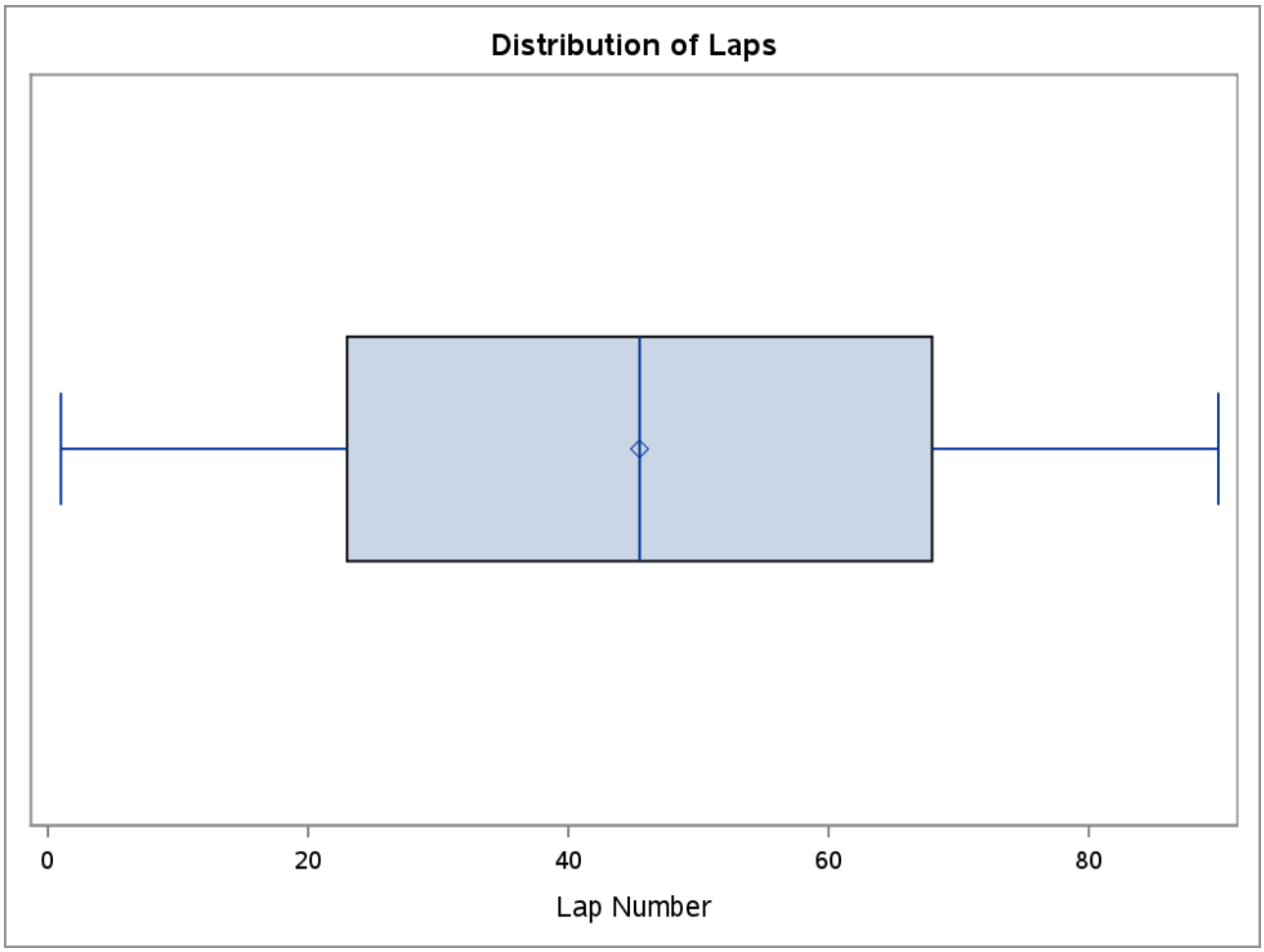
| Extreme Observations | | | |
|---|---|---|---|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1 | 3069 | 37 | 3326 |
| 1 | 3068 | 37 | 3327 |
| 1 | 3067 | 37 | 3328 |
| 1 | 3066 | 37 | 3329 |
| 1 | 3065 | 37 | 3330 |

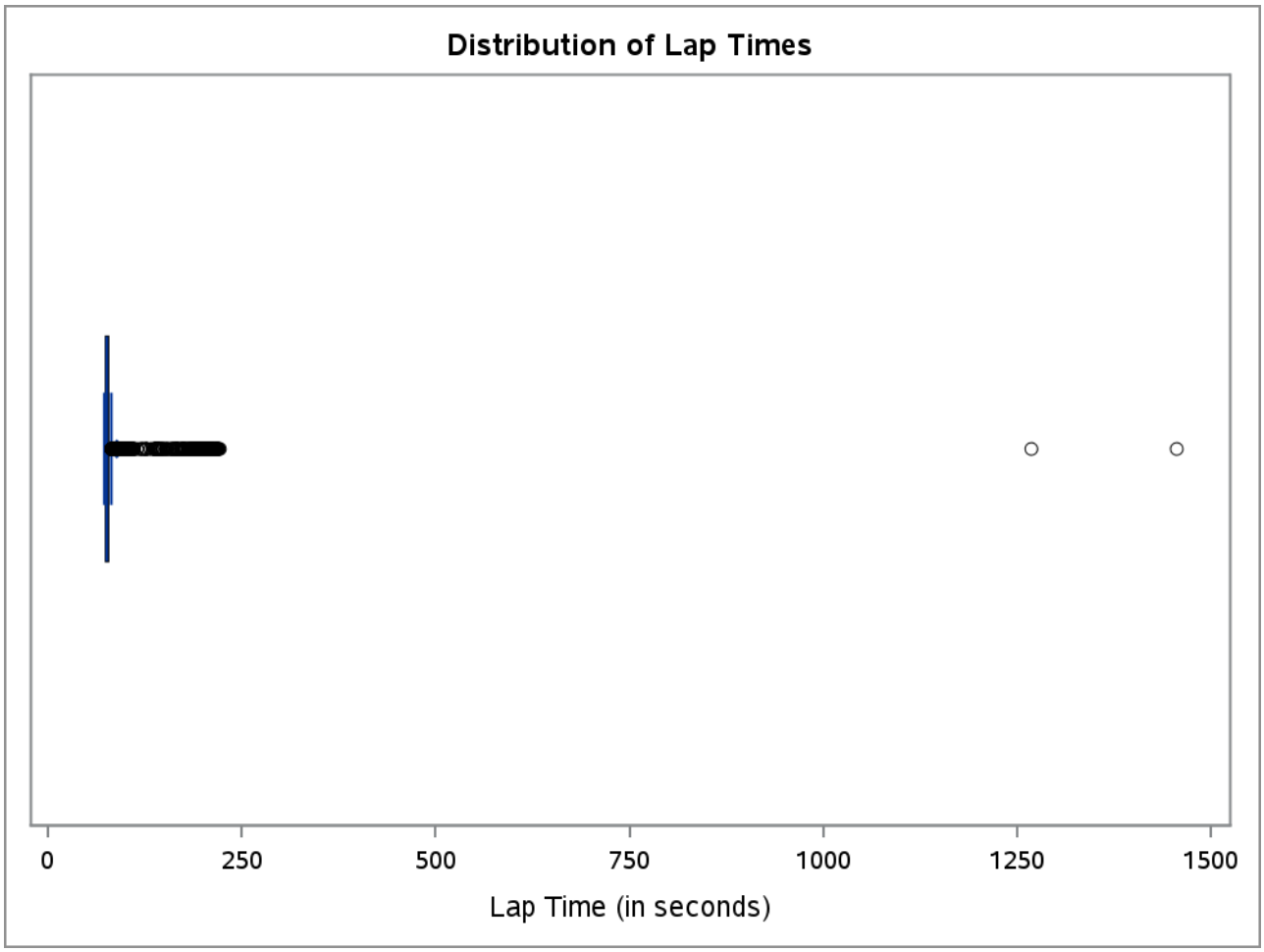

Distribution of Car Number
0
20
40
60
80
100
Car Numbers

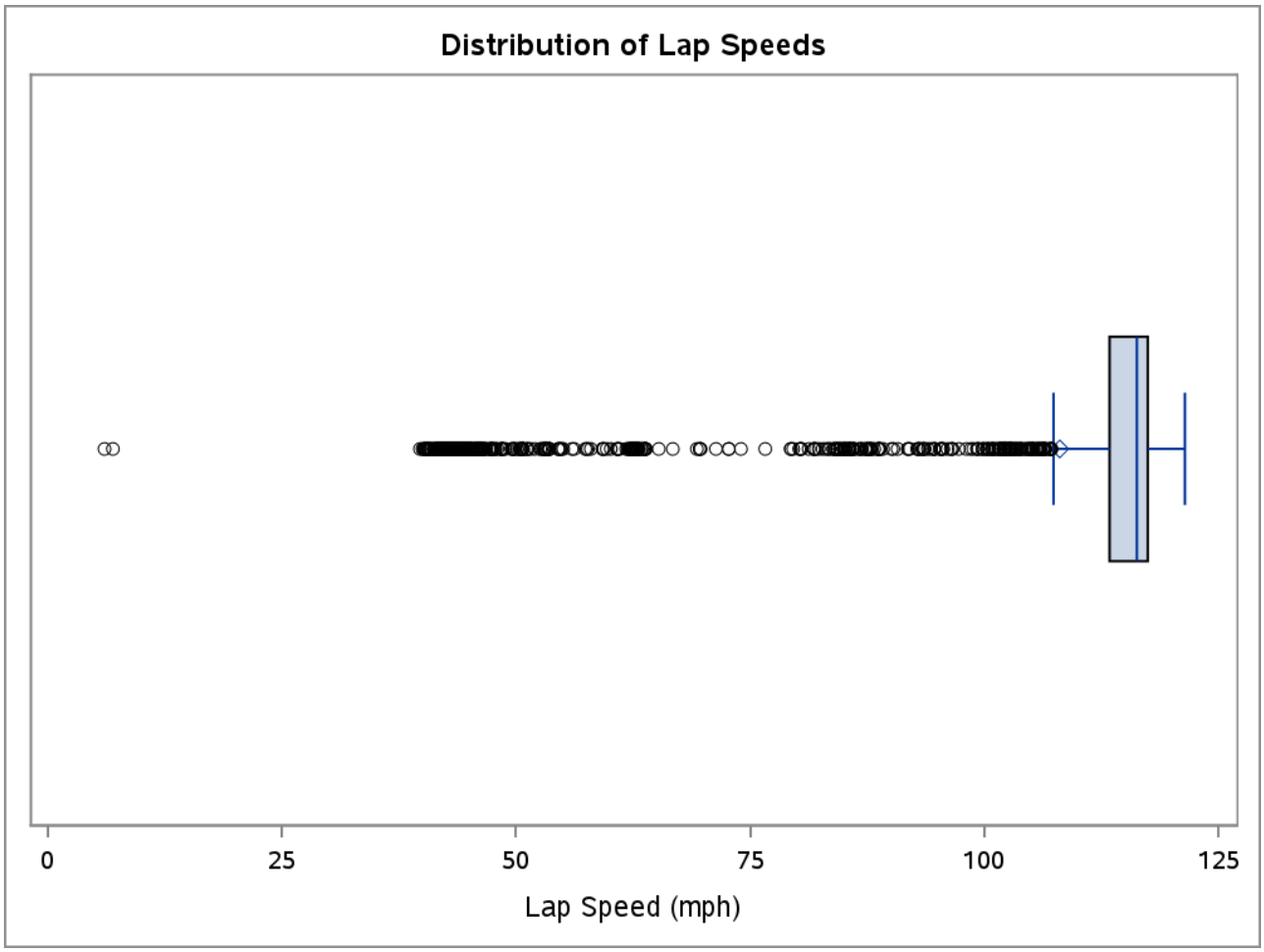

Distribution of Starting Position
0
10
20
30
40
Starting Position

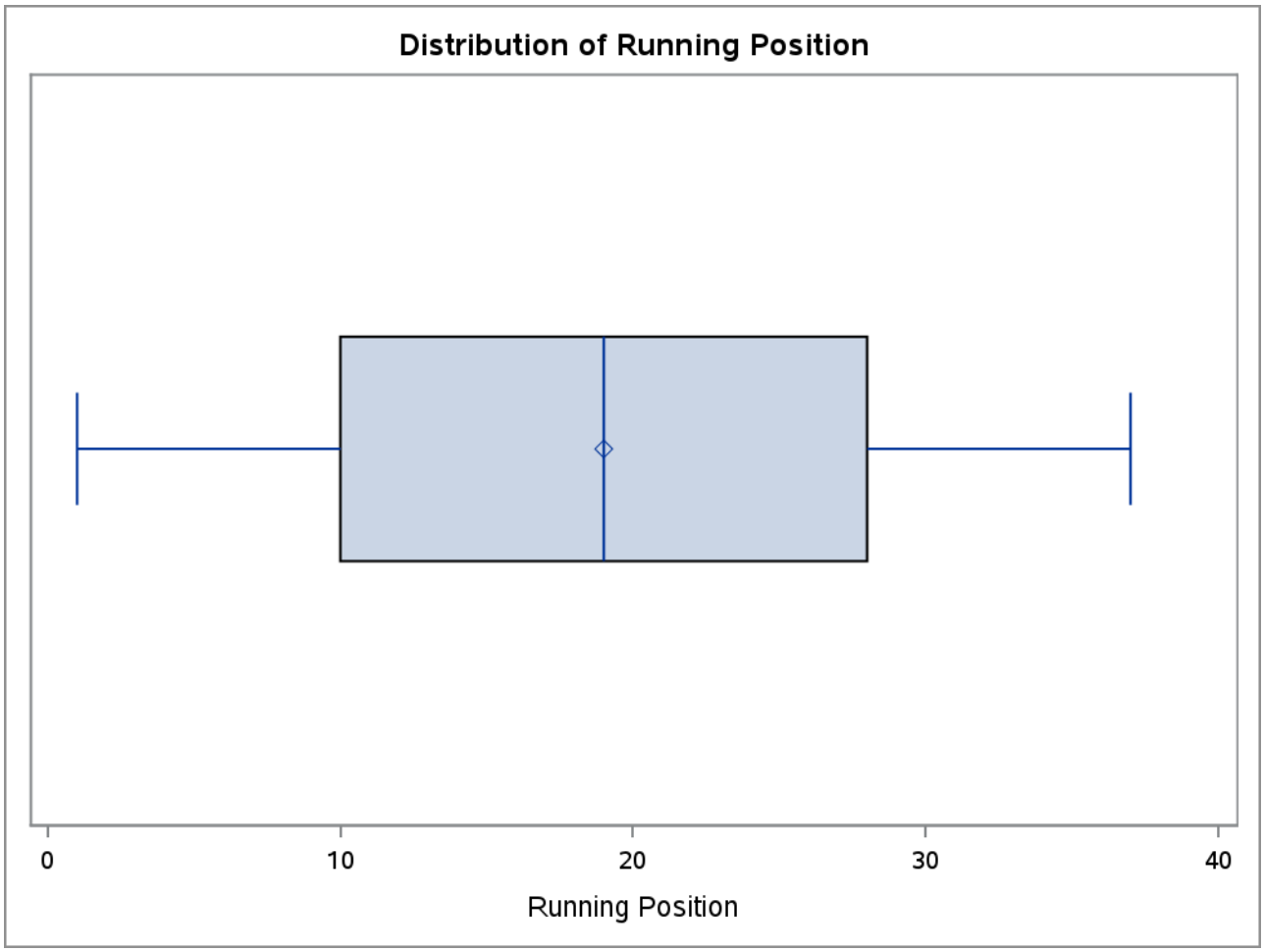

Distribution of Finishing Position
0
10
20
30
40
Finishing Position

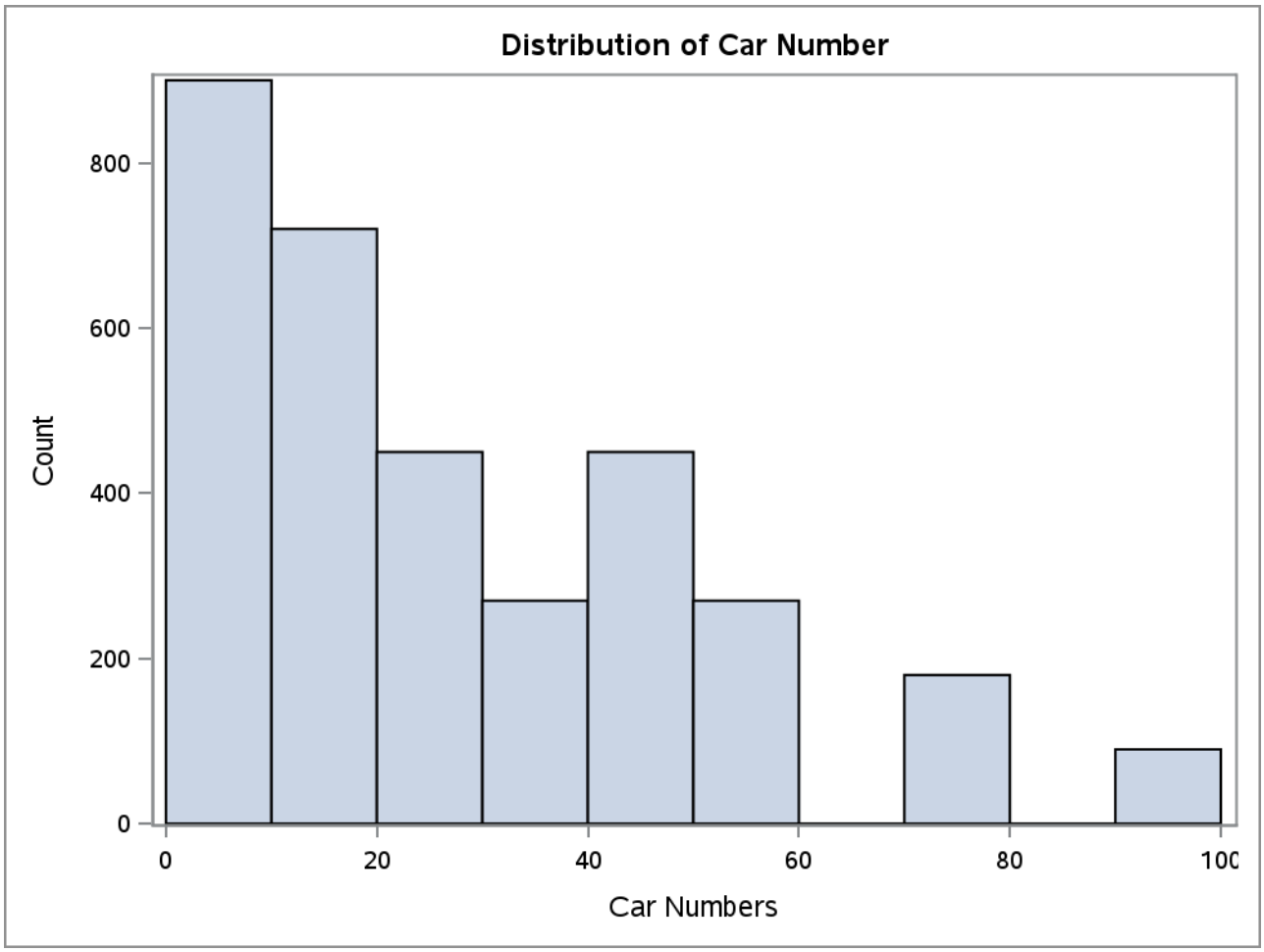

Distribution of Points Earned
0
10
20
30
40
50
Points

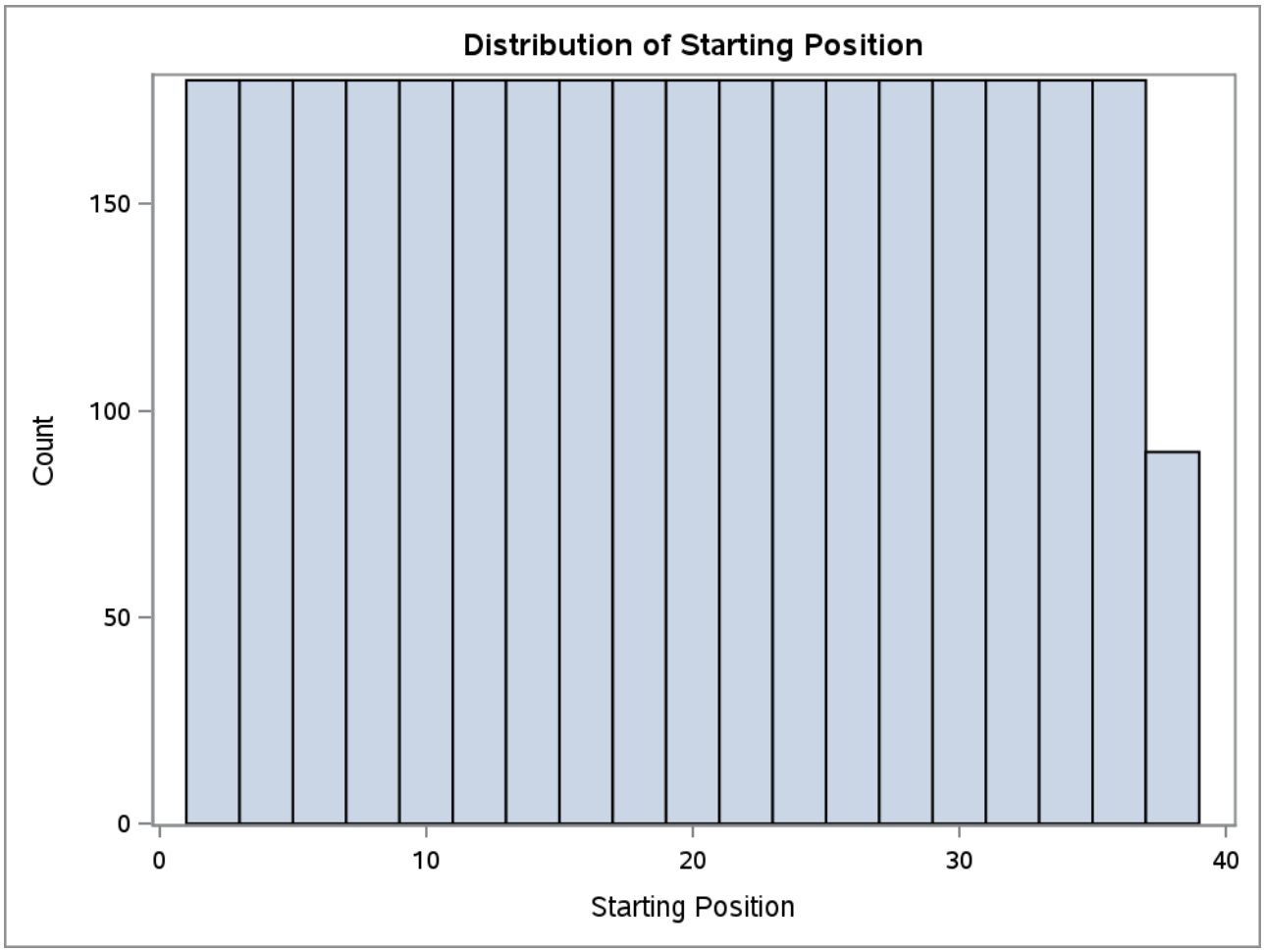

Distribution of Laps
0
20
40
60
80
Lap Number

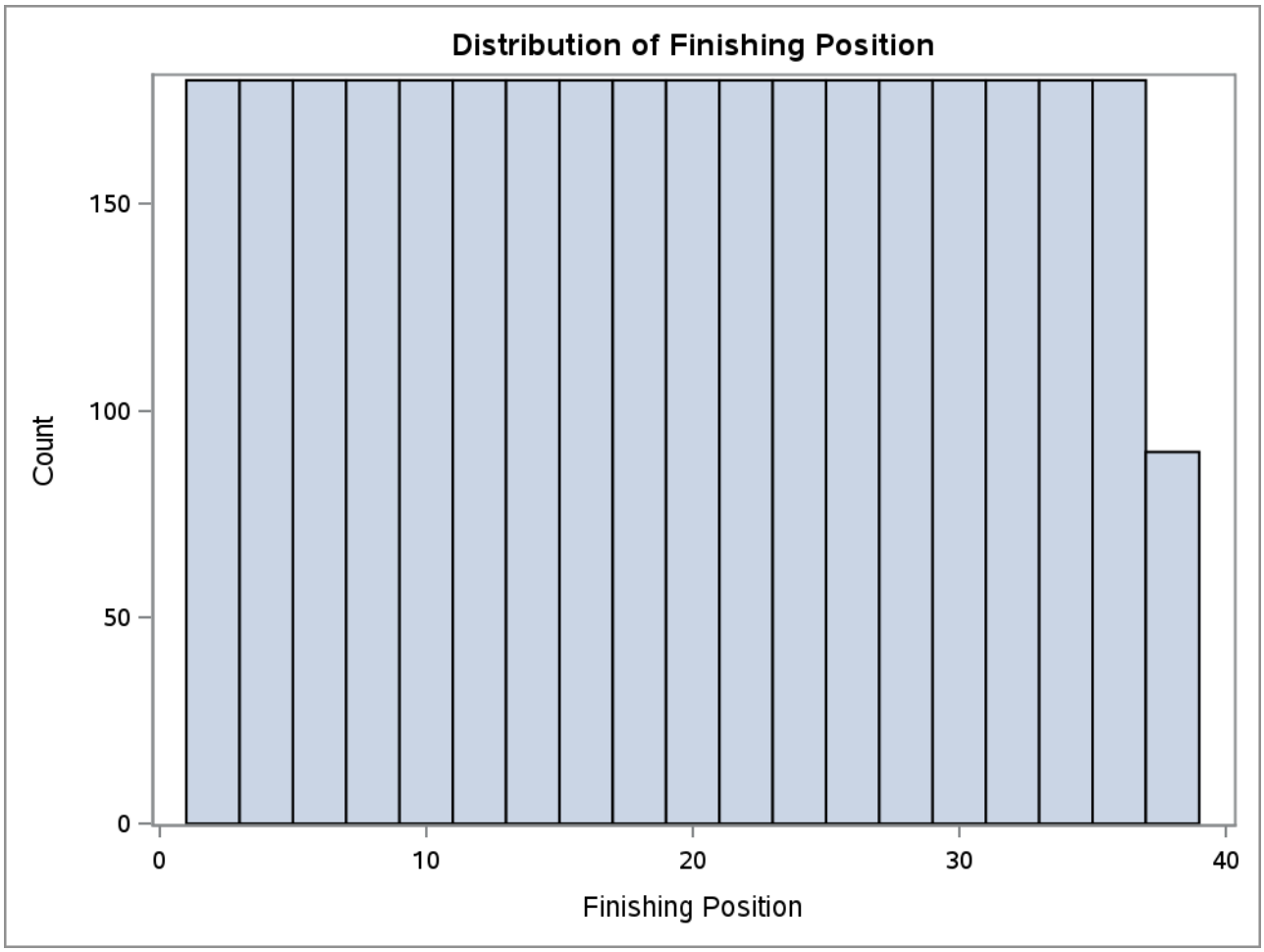

Distribution of Lap Times
0
250
500
750
1000
1250
1500
Lap Time (in seconds)

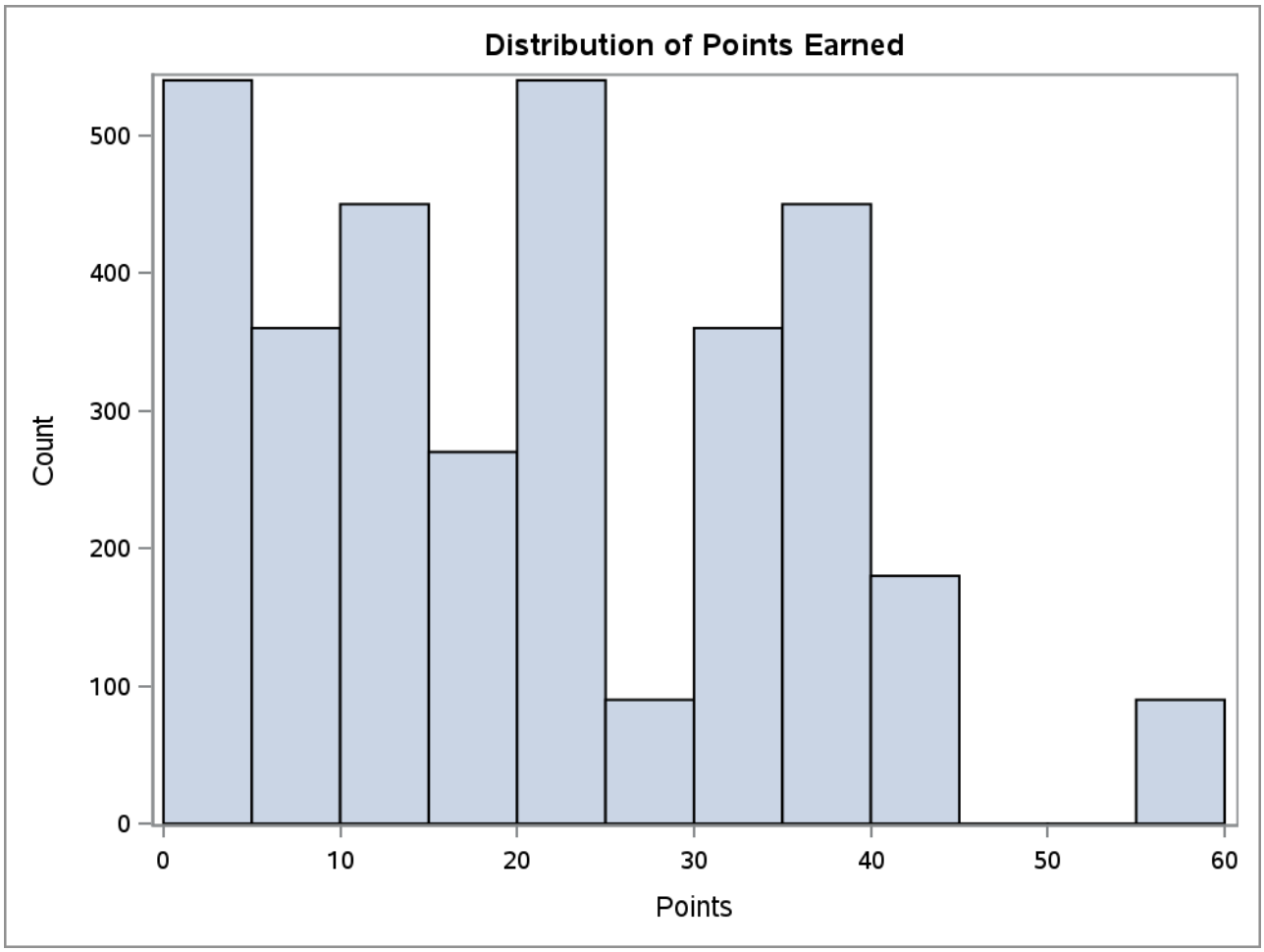

Distribution of Lap Speeds
0
25
50
75
100
125
Lap Speed (mph)

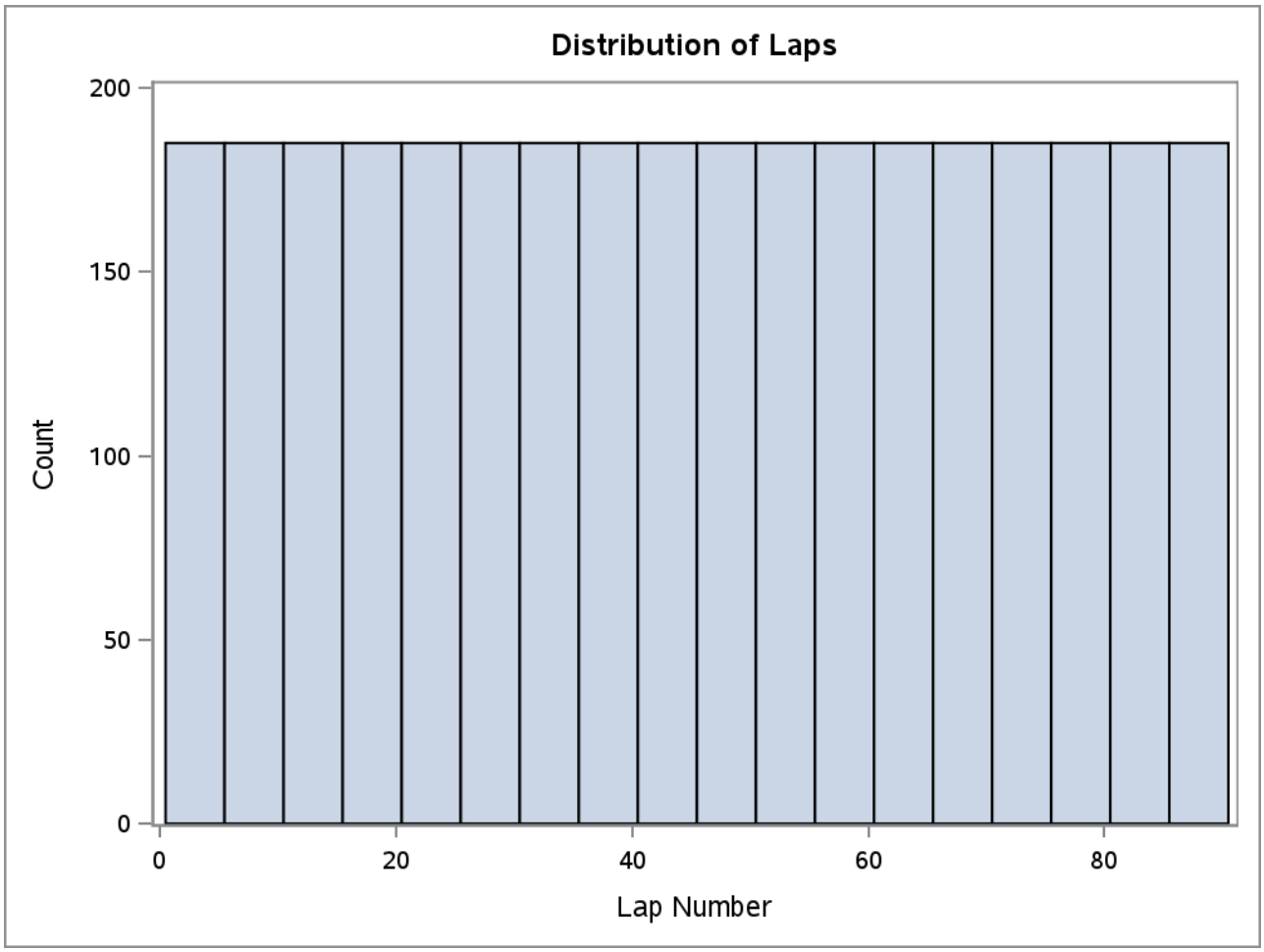

Distribution of Running Position
0
10
20
30
40
Running Position

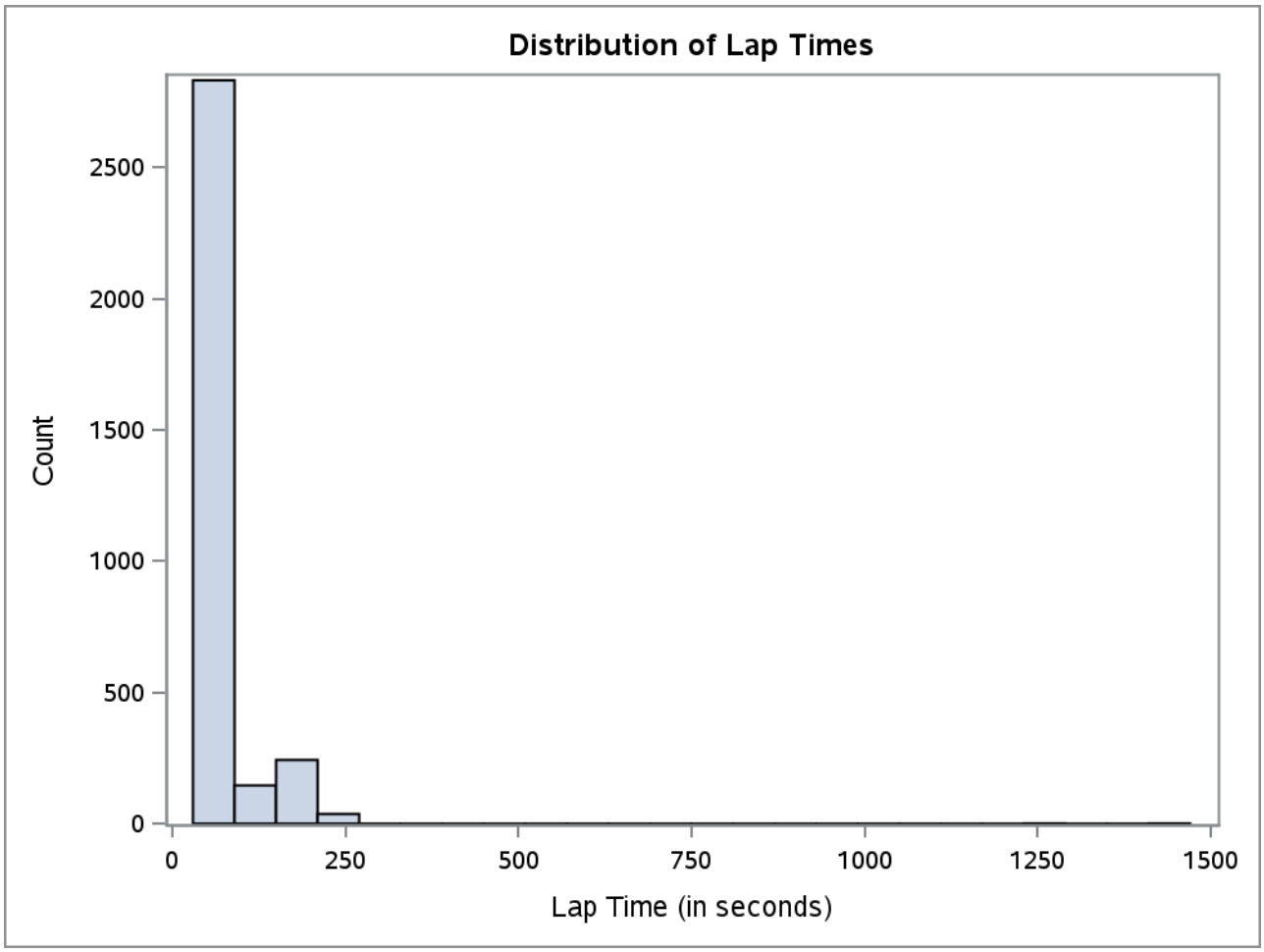

Distribution of Car Number
Count
800
600
400
200
0
0
20
40
60
80
100
Car Numbers

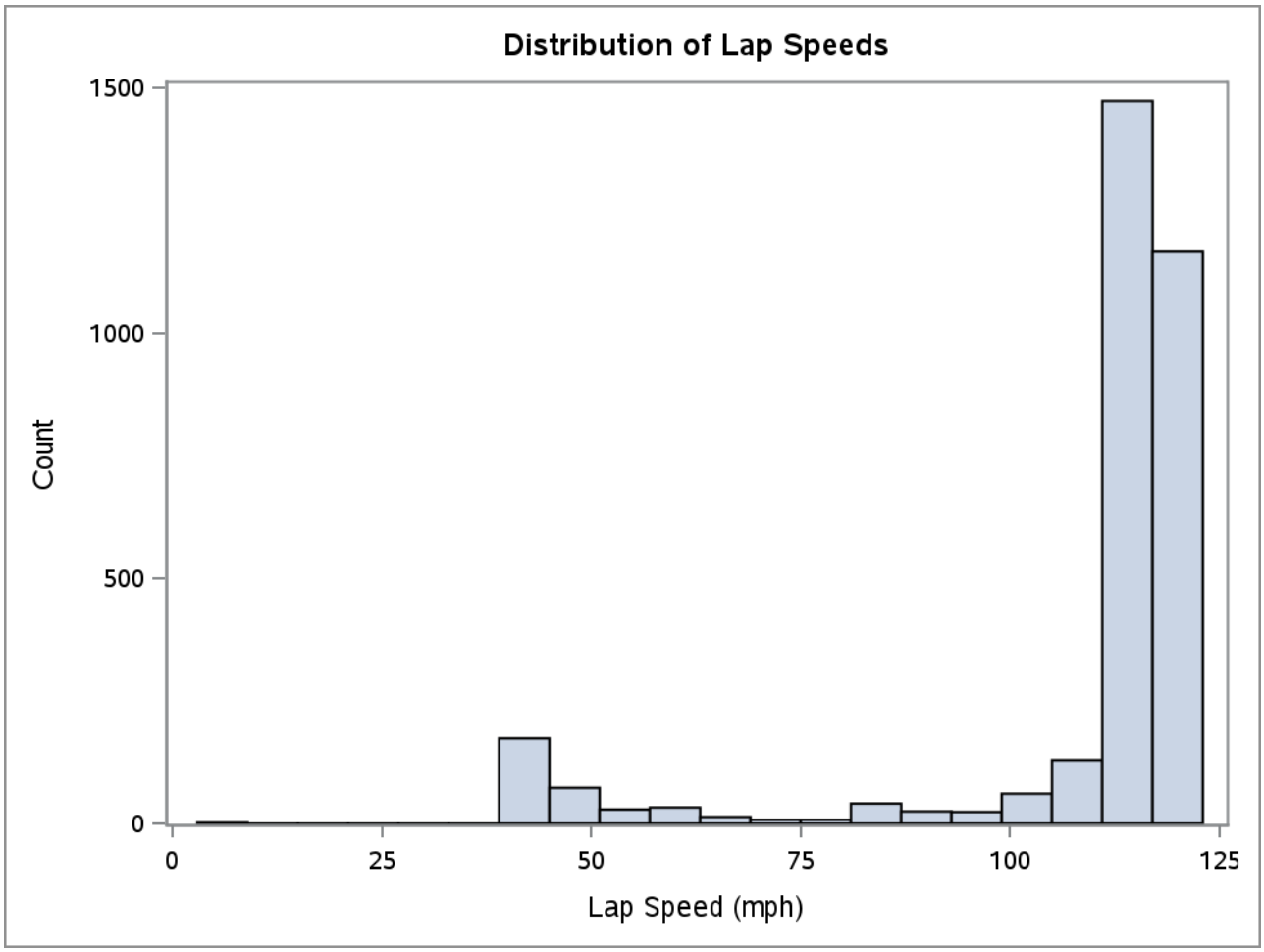

Distribution of Starting Position
Count
150
100
50
0
0
10
20
30
40
Starting Position

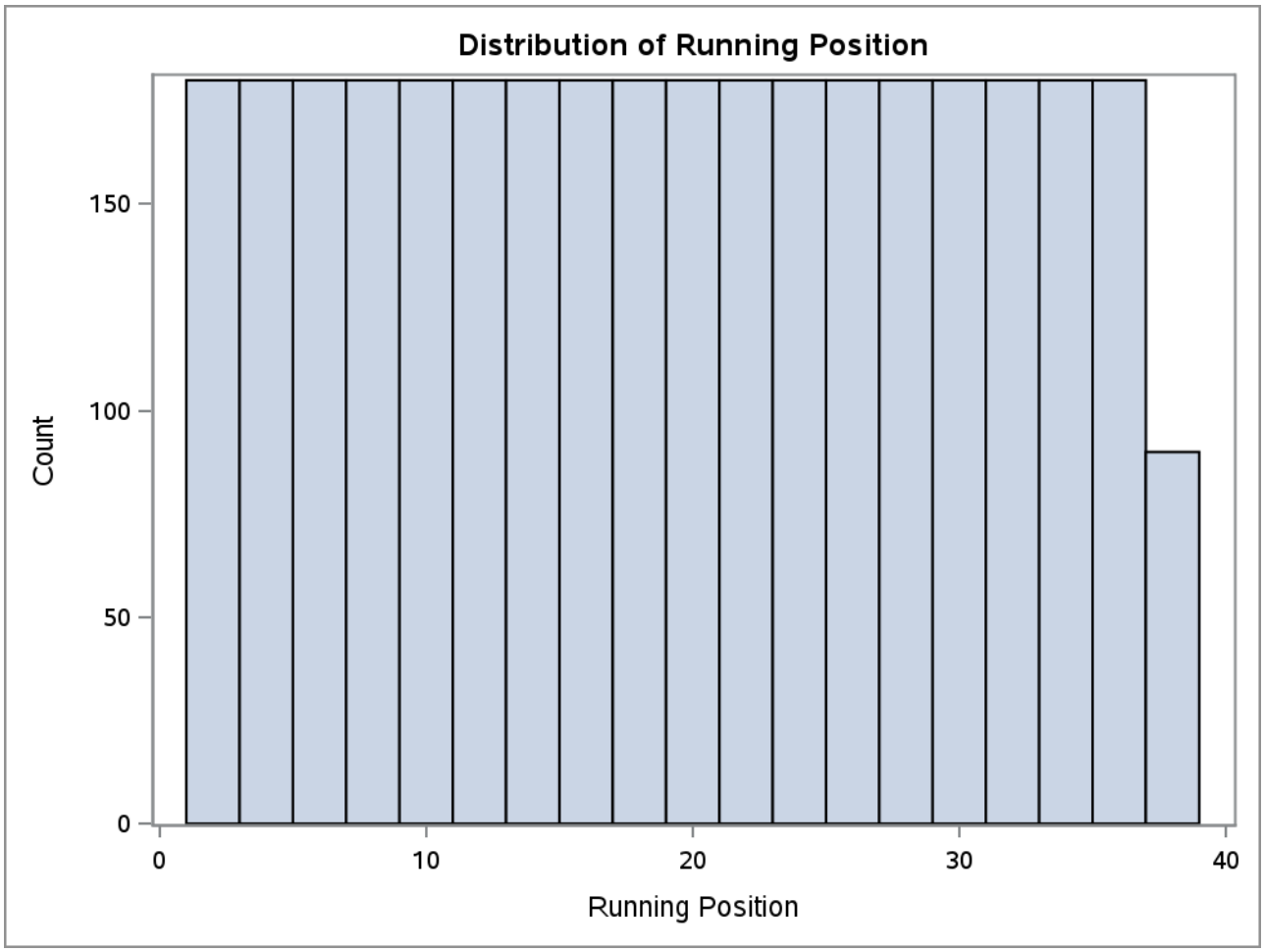

Distribution of Finishing Position
Count
150
100
50
0
0
10
20
30
40
Finishing Position

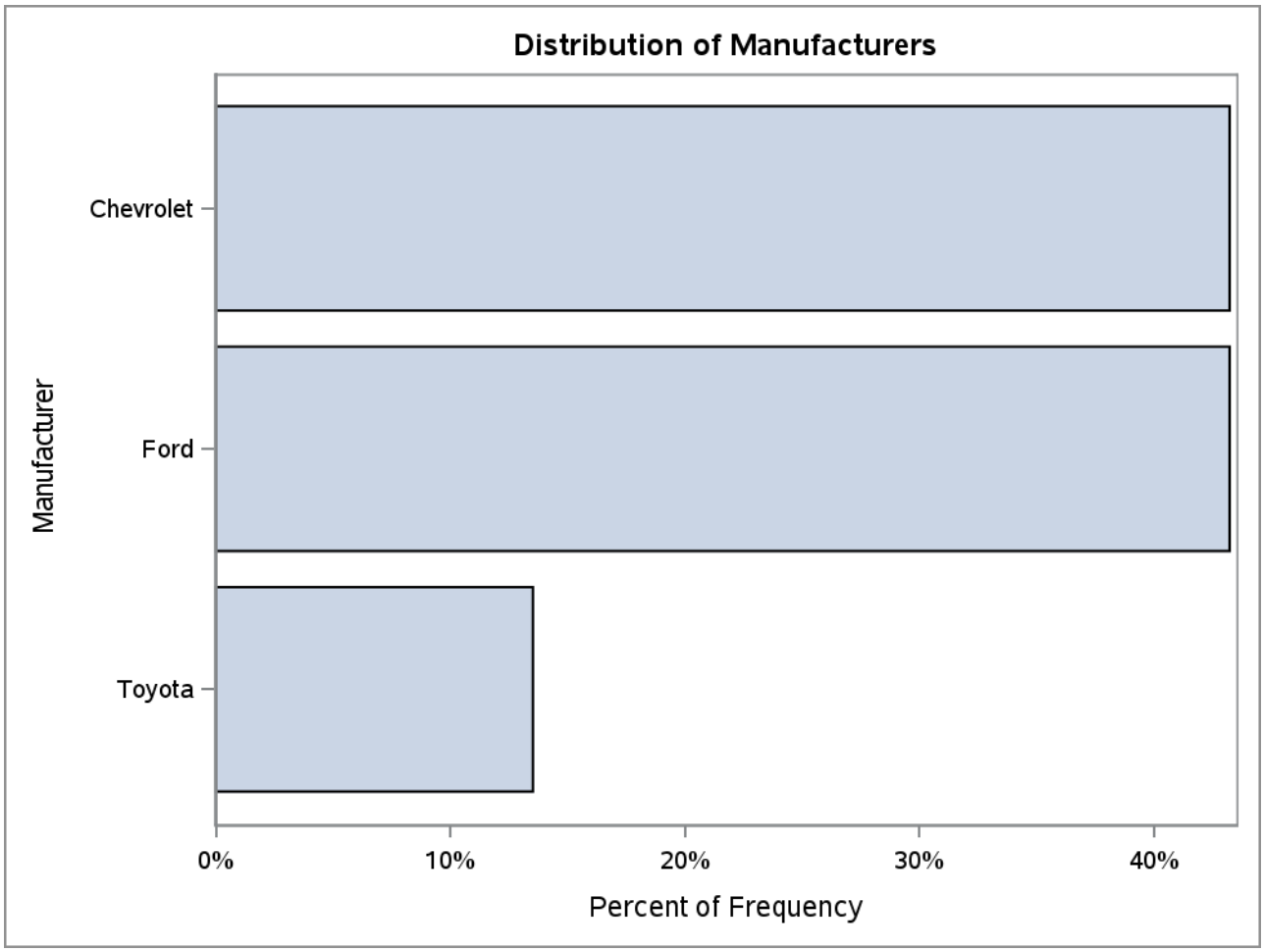

Distribution of Points Earned
Count
500
400
300
200
100
0
0
10
20
30
40
50
60
Points

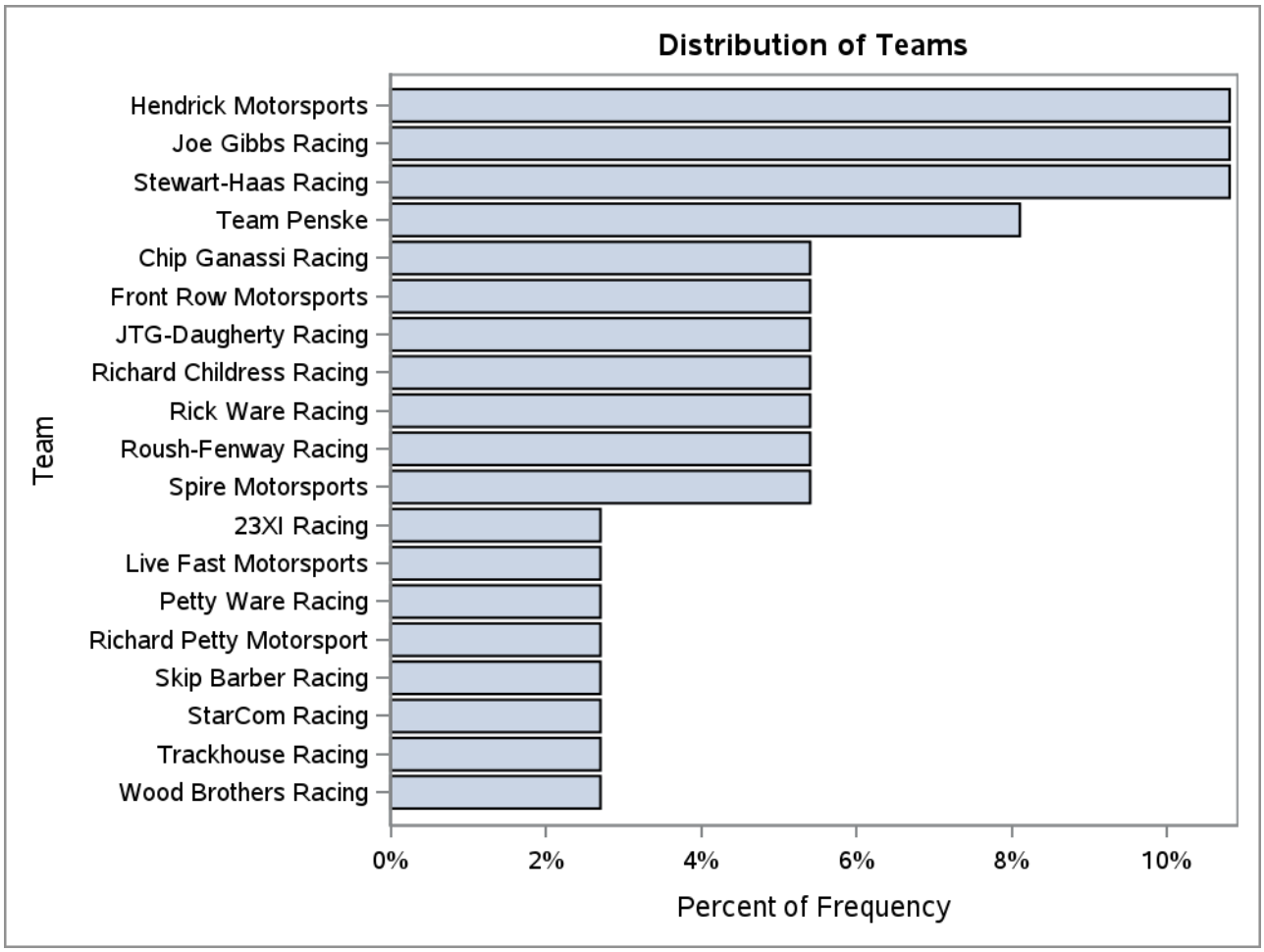

Distribution of Laps
Count
200
150
100
50
0
0
20
40
60
80
Lap Number


Distribution of Lap Times
Count
2500
2000
1500
1000
500
0
0
250
500
750
1000
1250
1500
Lap Time (in seconds)


Distribution of Lap Speeds
Count
1500
1000
500
0
0
25
50
75
100
125
Lap Speed (mph)


Distribution of Running Position
Count
150
100
50
0
0
10
20
30
40
Running Position


Distribution of Manufacturers
Manufacturer
Chevrolet
Ford
Toyota
0%
10%
20%
30%
40%
Percent of Frequency


Distribution of Teams
Team
Hendrick Motorsports
Joe Gibbs Racing
Stewart-Haas Racing
Team Penske
Chip Ganassi Racing
Front Row Motorsports
JTG-Daugherty Racing
Richard Childress Racing
Rick Ware Racing
Roush-Fenway Racing
Spire Motorsports
23XI Racing
Live Fast Motorsports
Petty Ware Racing
Richard Petty Motorsport
Skip Barber Racing
StarCom Racing
Trackhouse Racing
Wood Brothers Racing
0%
2%
4%
6%
8%
10%
Percent of Frequency

## The CORR Procedure

| 2 Variables: | Start Finish |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **N** | **Mean** | **Std Dev** | **Sum** | **Minimum** | **Maximum** |
| **Start** | 37 | 19.00000 | 10.82436 | 703.00000 | 1.00000 | 37.00000 |
| **Finish** | 37 | 19.00000 | 10.82436 | 703.00000 | 1.00000 | 37.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | **Start** | **Finish** |
| **Start** | 1.00000 | 0.64391<br><.0001 |
| **Finish** | 0.64391<br><.0001 | 1.00000 |

## The CORR Procedure

| 2 Variables: | Start Points |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **N** | **Mean** | **Std Dev** | **Sum** | **Minimum** | **Maximum** |
| **Start** | 37 | 19.00000 | 10.82436 | 703.00000 | 1.00000 | 37.00000 |
| **Points** | 37 | 20.86486 | 14.67644 | 772.00000 | 0 | 56.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | **Start** | **Points** |
| **Start** | 1.00000 | -0.68140<br><.0001 |
| **Points** | -0.68140<br><.0001 | 1.00000 |

## The CORR Procedure

| 2 Variables: | Average_Speed Points |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **N** | **Mean** | **Std Dev** | **Sum** | **Minimum** | **Maximum** |
| **Average_Speed** | 37 | 107.98516 | 1.62474 | 3995 | 102.46717 | 110.21907 |
| **Points** | 37 | 20.86486 | 14.67644 | 772.00000 | 0 | 56.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | **Average_Speed** | **Points** |
| **Average_Speed** | 1.00000 | 0.84447<br><.0001 |
| **Points** | 0.84447<br><.0001 | 1.00000 |

## The CORR Procedure

| 2 Variables: | Average_Speed Finish |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| Variable | N | Mean | Std Dev | Sum | Minimum | Maximum |
| Average_Speed | 37 | 107.98516 | 1.62474 | 3995 | 102.46717 | 110.21907 |
| Finish | 37 | 19.00000 | 10.82436 | 703.00000 | 1.00000 | 37.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | Average_Speed | Finish |
| Average_Speed | 1.00000 | -0.87345<br><.0001 |
| Finish | -0.87345<br><.0001 | 1.00000 |

## The CORR Procedure

| 2 Variables: | Average_Running_Position Finish |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **N** | **Mean** | **Std Dev** | **Sum** | **Minimum** | **Maximum** |
| **Average_Running_Position** | 37 | 19.00000 | 8.59559 | 703.00000 | 3.52222 | 34.55556 |
| **Finish** | 37 | 19.00000 | 10.82436 | 703.00000 | 1.00000 | 37.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | **Average_Running_Position** | **Finish** |
| **Average_Running_Position** | 1.00000 | 0.94273<br><.0001 |
| **Finish** | 0.94273<br><.0001 | 1.00000 |

# Average Running Position vs. Points

## The CORR Procedure

| 2 Variables: | Average_Running_Position Points |
|---|---|

| Simple Statistics | | | | | | |
|---|---|---|---|---|---|---|
| **Variable** | **N** | **Mean** | **Std Dev** | **Sum** | **Minimum** | **Maximum** |
| **Average_Running_Position** | 37 | 19.00000 | 8.59559 | 703.00000 | 3.52222 | 34.55556 |
| **Points** | 37 | 20.86486 | 14.67644 | 772.00000 | 0 | 56.00000 |

| Pearson Correlation Coefficients, N = 37<br>Prob > \|r\| under H0: Rho=0 | | |
|---|---|---|
| | **Average_Running_Position** | **Points** |
| **Average_Running_Position** | 1.00000 | -0.94427<br><.0001 |
| **Points** | -0.94427<br><.0001 | 1.00000 |

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

| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

**Analysis of Variance**

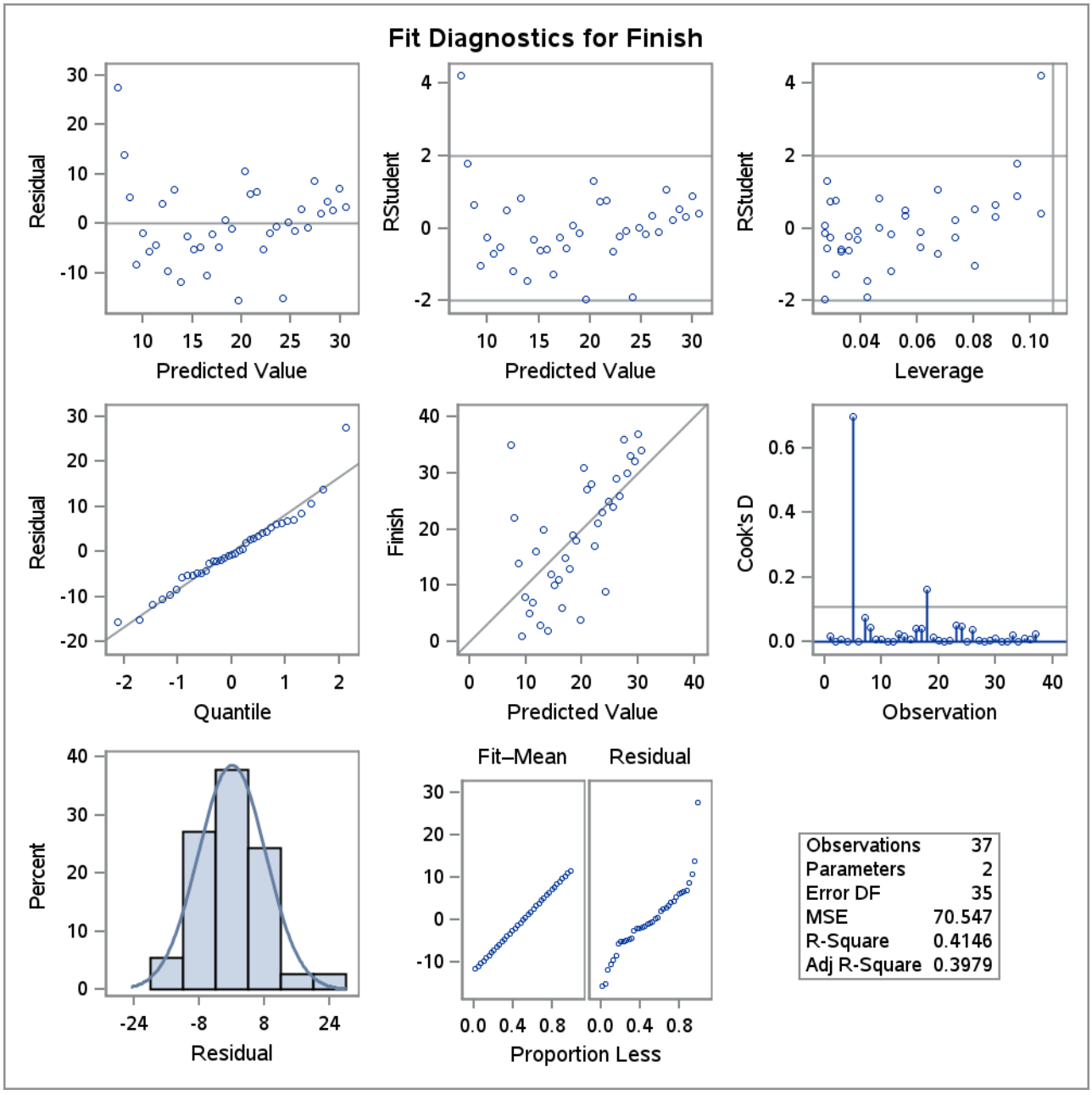
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 1748.85159 | 1748.85159 | 24.79 | <.0001 |
| **Error** | 35 | 2469.14841 | 70.54710 | | |
| **Corrected Total** | 36 | 4218.00000 | | | |

| | | | |
|---|---|---|---|
| **Root MSE** | 8.39923 | **R-Square** | 0.4146 |
| **Dependent Mean** | 19.00000 | **Adj R-Sq** | 0.3979 |
| **Coeff Var** | 44.20648 | | |

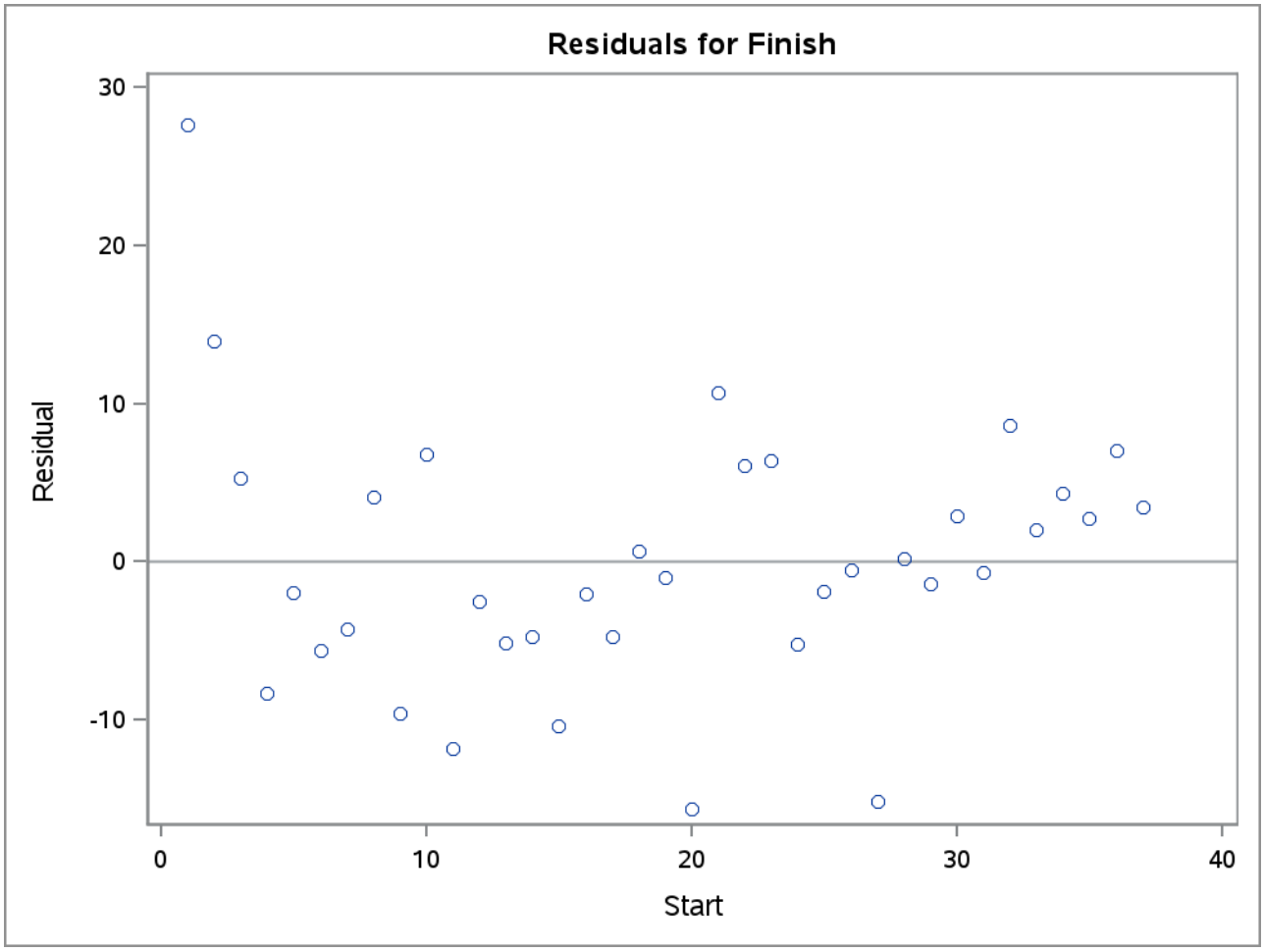
**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | 6.76577 | 2.81860 | 2.40 | 0.0218 |
| **Start** | 1 | 0.64391 | 0.12933 | 4.98 | <.0001 |

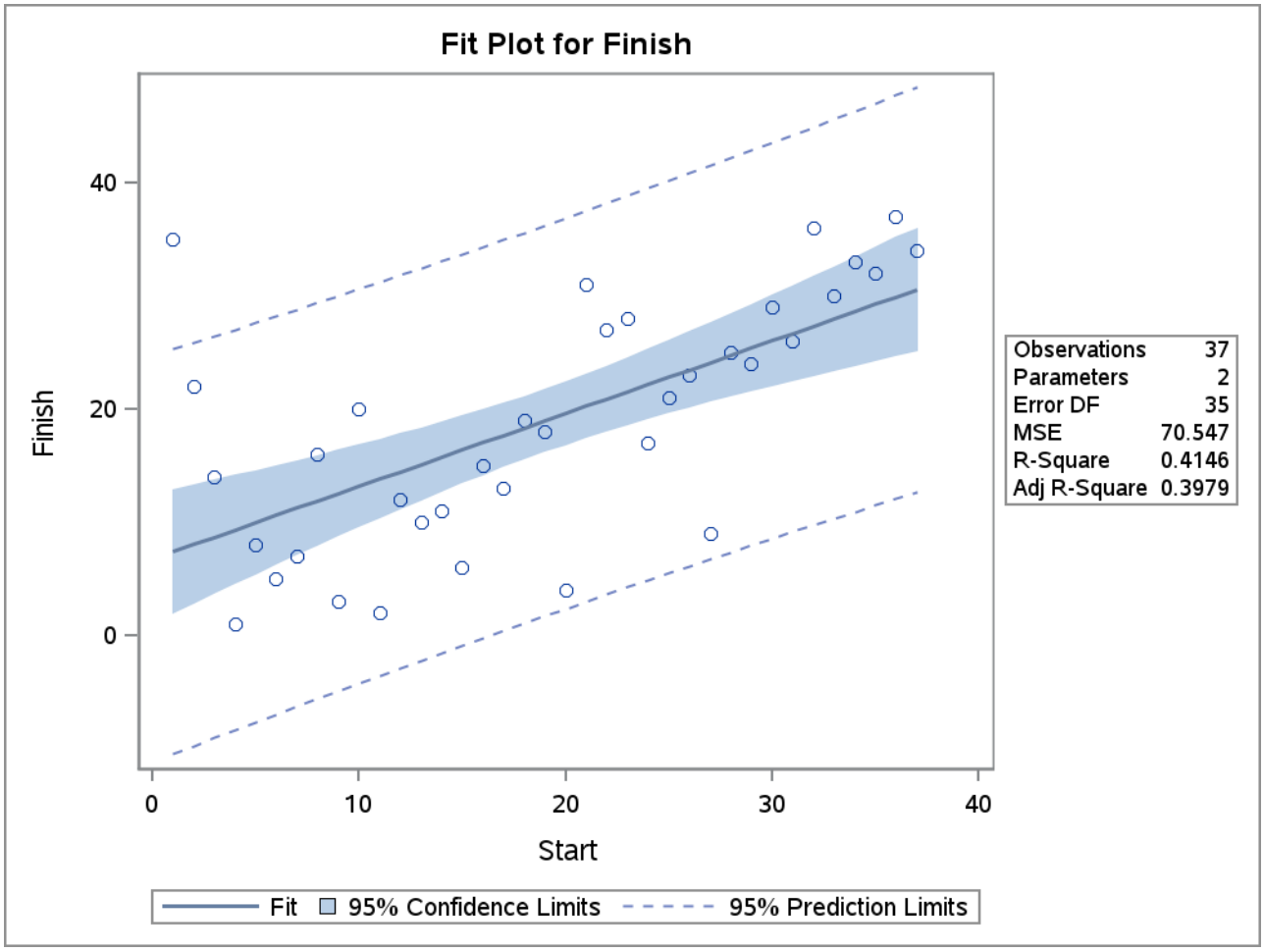
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Finish**



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



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



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

| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

**Analysis of Variance**

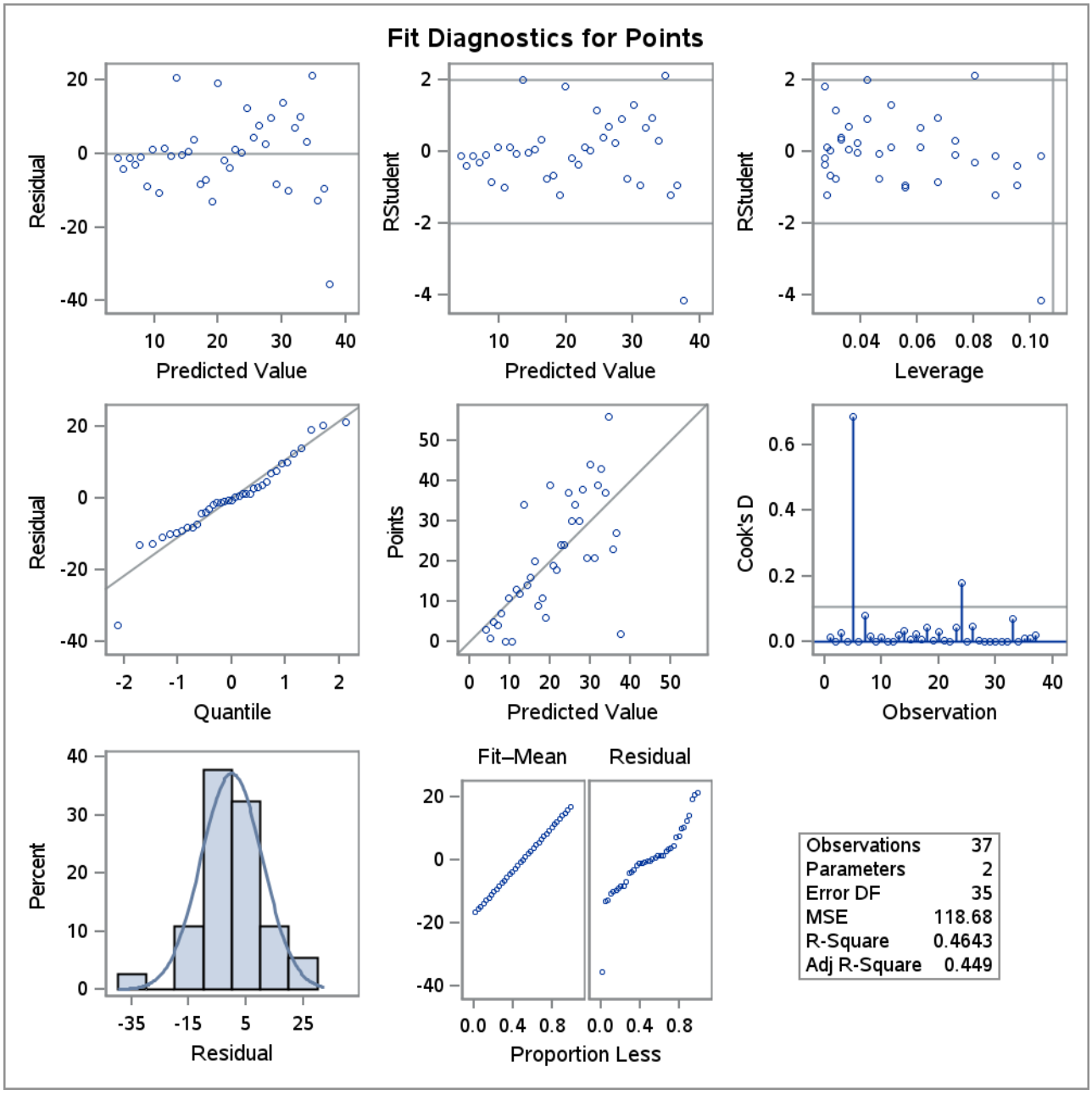
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 3600.42888 | 3600.42888 | 30.34 | <.0001 |
| **Error** | 35 | 4153.89545 | 118.68273 | | |
| **Corrected Total** | 36 | 7754.32432 | | | |

| | | | |
|---|---|---|---|
| **Root MSE** | 10.89416 | **R-Square** | 0.4643 |
| **Dependent Mean** | 20.86486 | **Adj R-Sq** | 0.4490 |
| **Coeff Var** | 52.21294 | | |

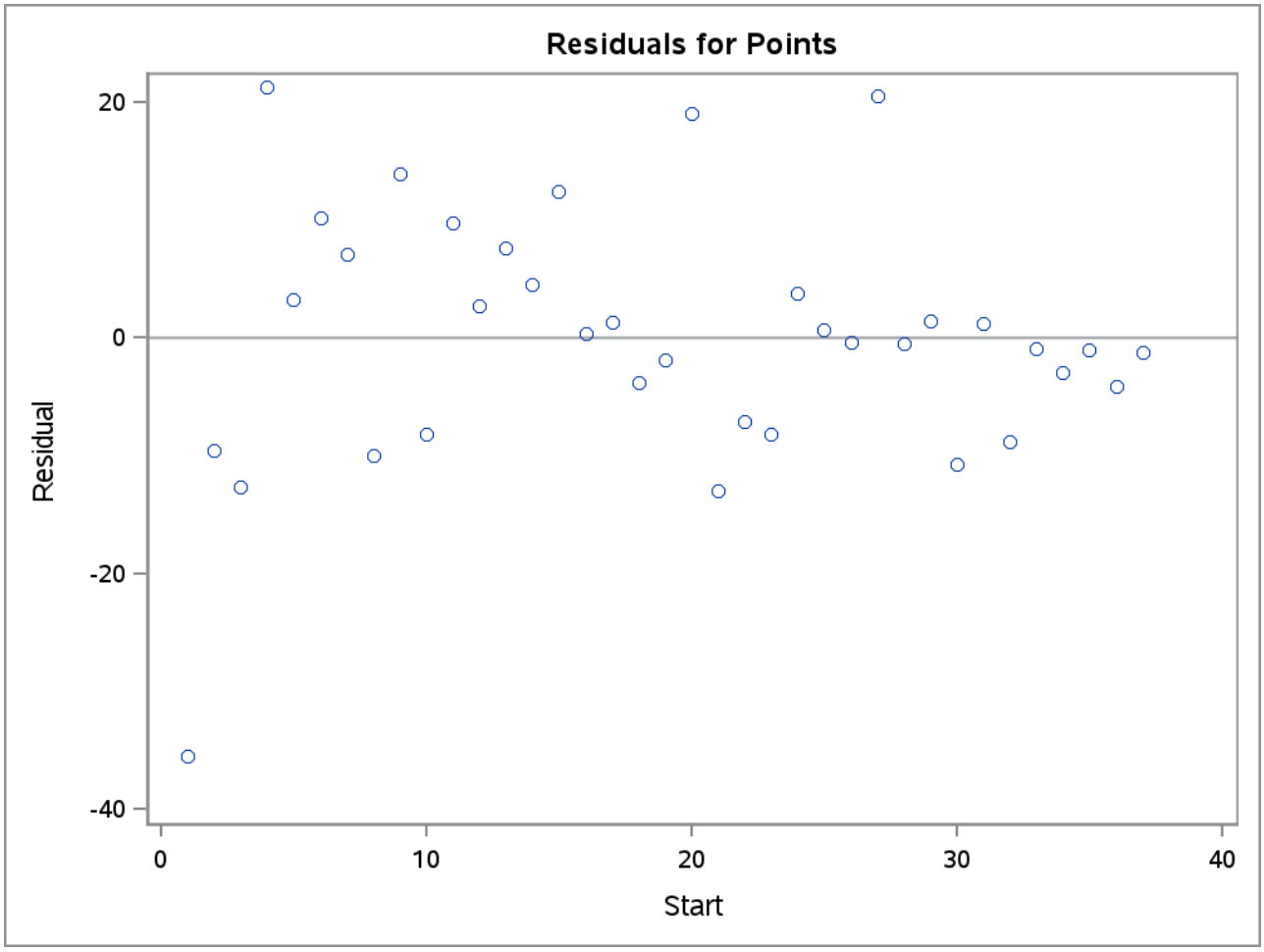
**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | 38.41892 | 3.65584 | 10.51 | <.0001 |
| **Start** | 1 | -0.92390 | 0.16774 | -5.51 | <.0001 |

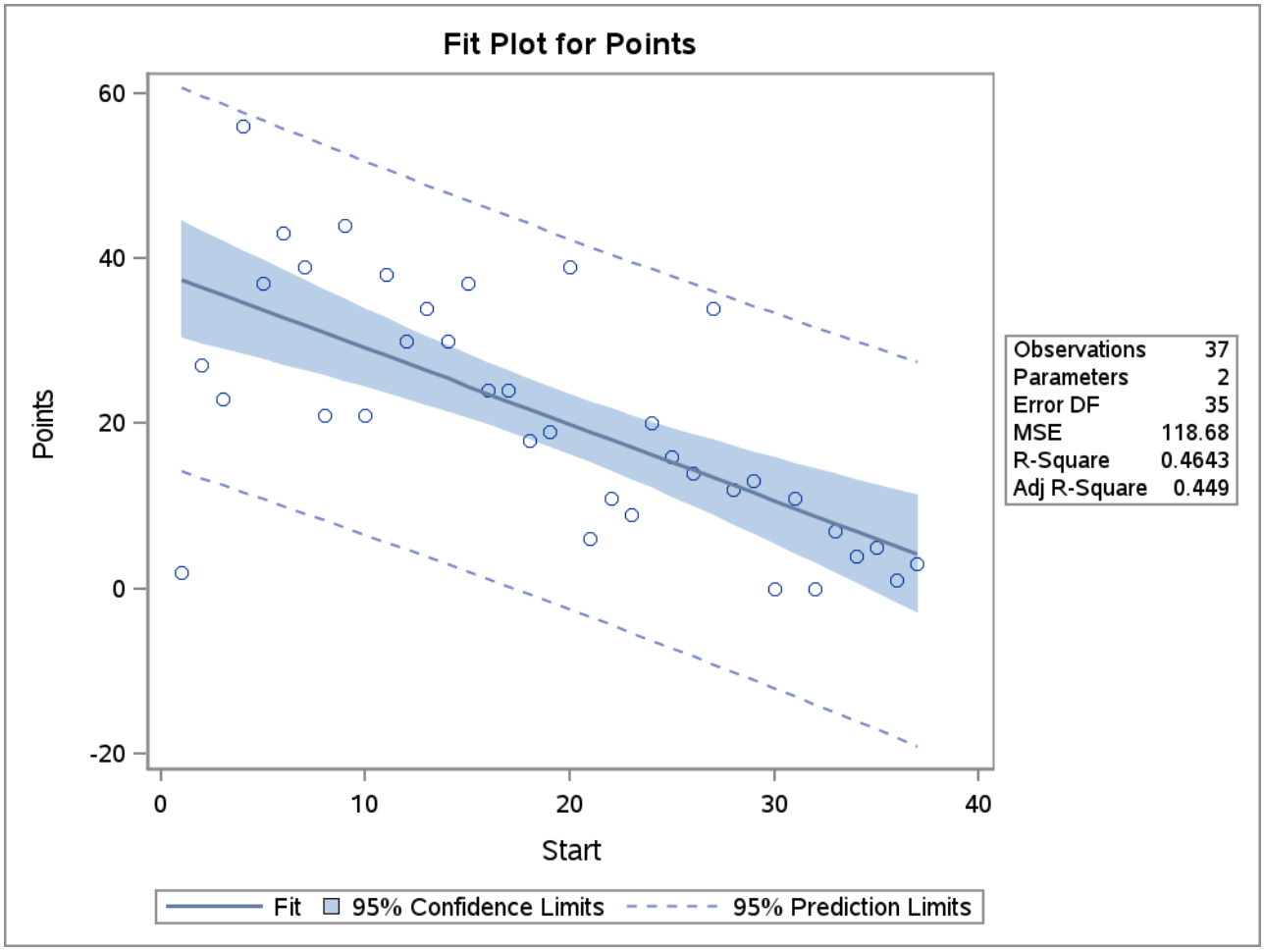
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Points**



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



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



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

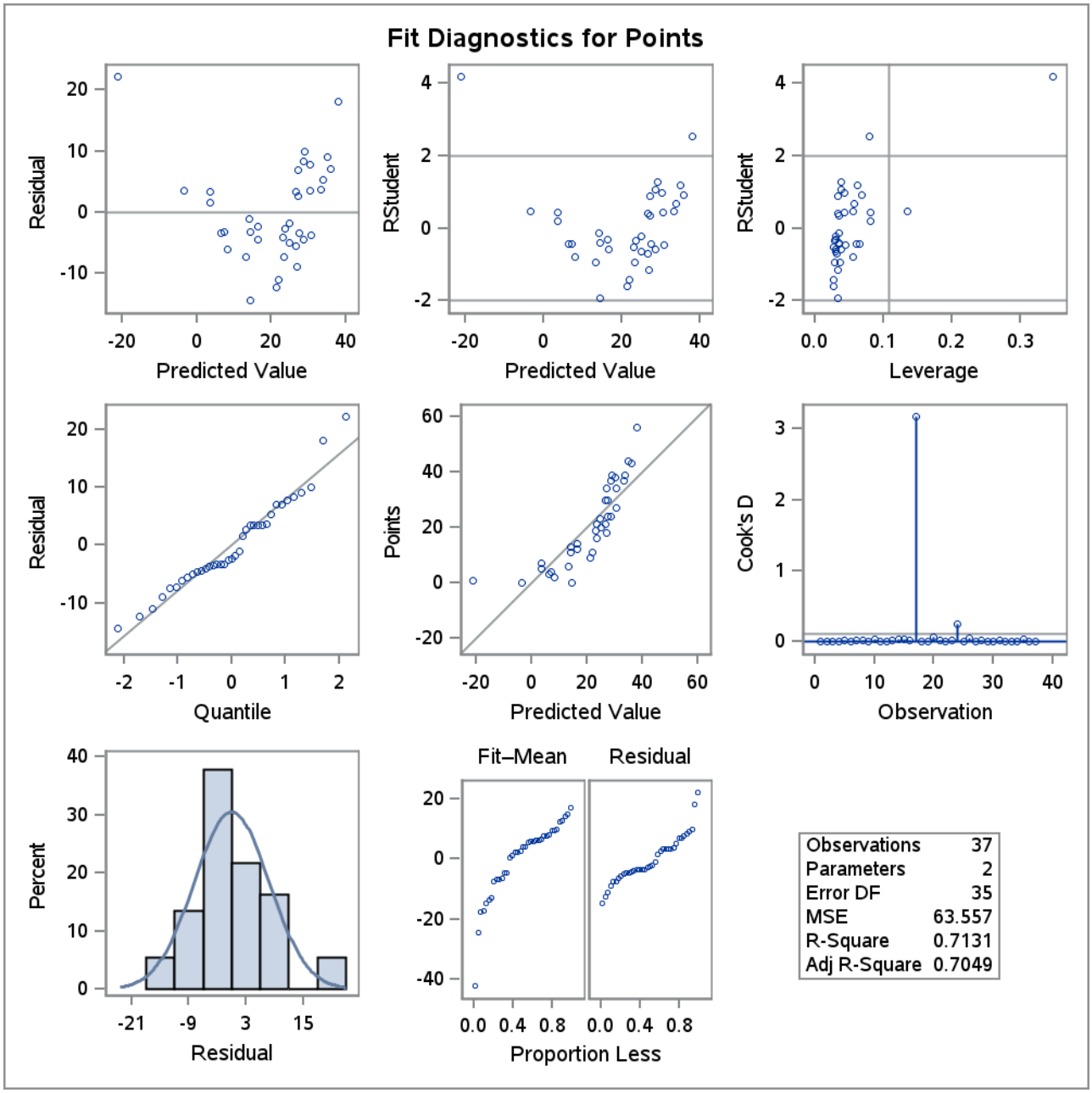
| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| **Source** | **DF** | **Sum of Squares** | **Mean Square** | **F Value** | **Pr > F** |
| **Model** | 1 | 5529.82615 | 5529.82615 | 87.01 | <.0001 |
| **Error** | 35 | 2224.49817 | 63.55709 | | |
| **Corrected Total** | 36 | 7754.32432 | | | |

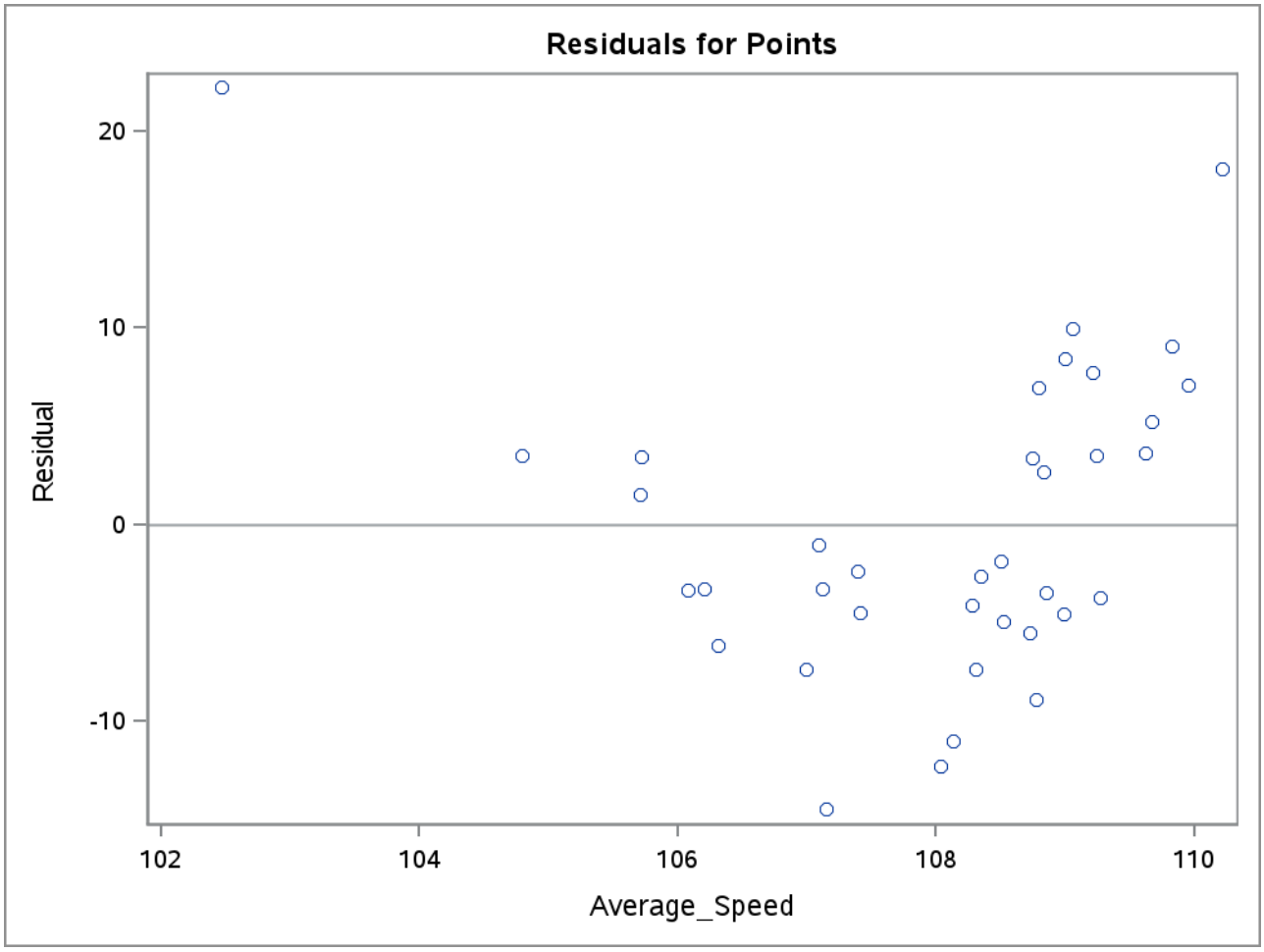
| | | | |
|---|---|---|---|
| **Root MSE** | 7.97227 | **R-Square** | 0.7131 |
| **Dependent Mean** | 20.86486 | **Adj R-Sq** | 0.7049 |
| **Coeff Var** | 38.20907 | | |

| Parameter Estimates | | | | | |
|---|---|---|---|---|---|
| **Variable** | **DF** | **Parameter Estimate** | **Standard Error** | **t Value** | **Pr > \|t\|** |
| **Intercept** | 1 | -802.86564 | 88.32004 | -9.09 | <.0001 |
| **Average_Speed** | 1 | 7.62818 | 0.81780 | 9.33 | <.0001 |

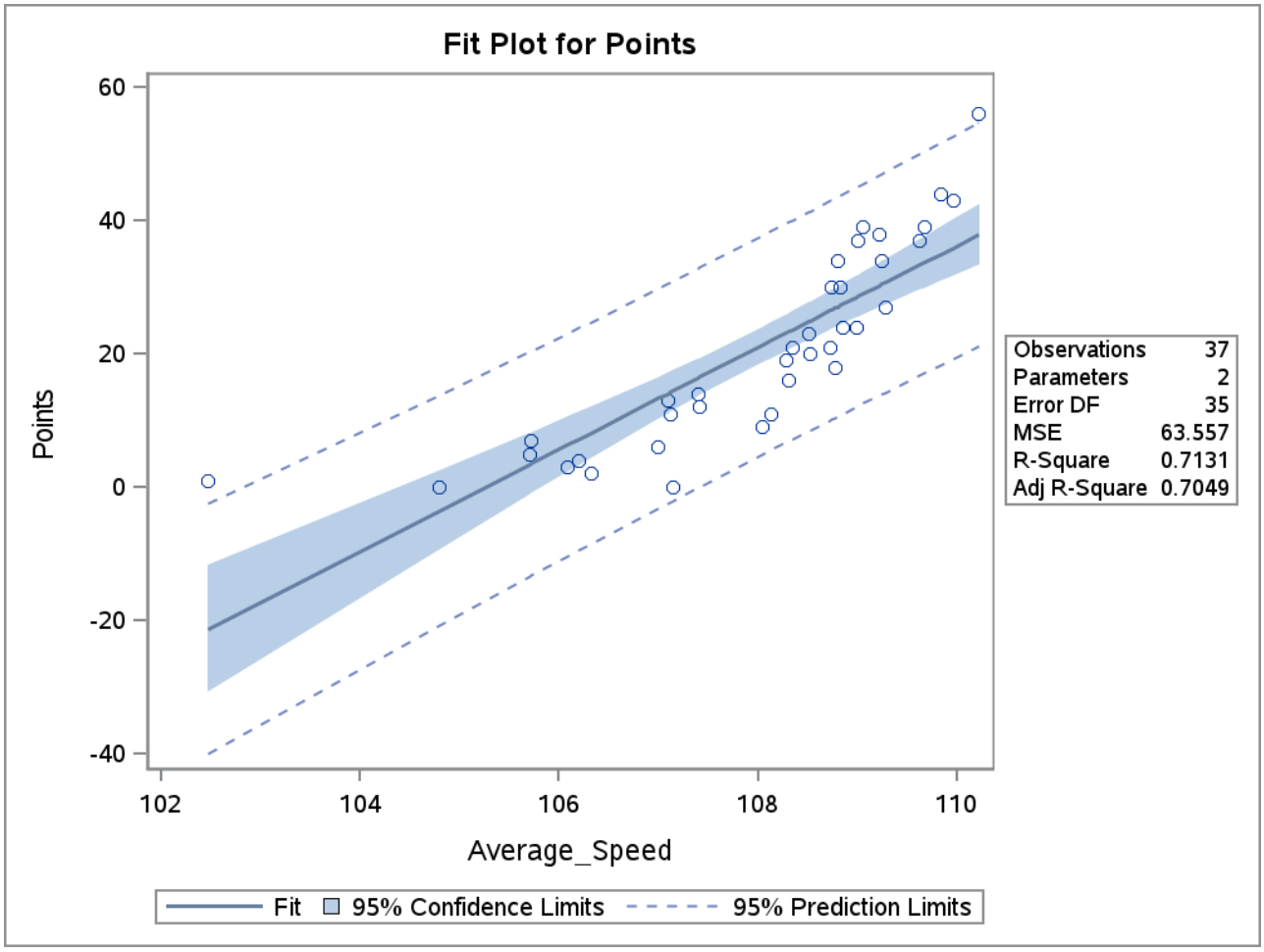
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Points**



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



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



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

| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

**Analysis of Variance**

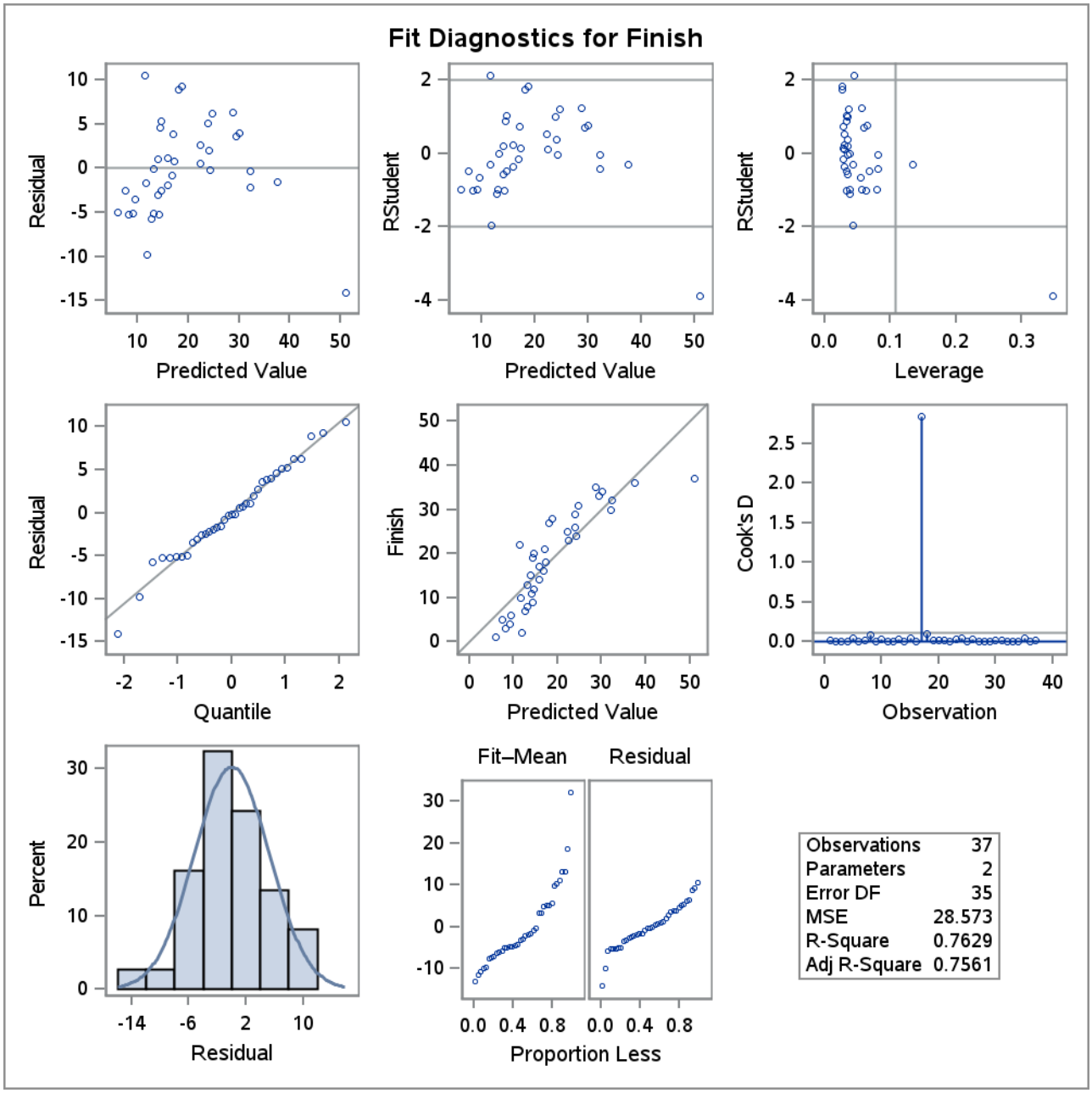
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 3217.95948 | 3217.95948 | 112.62 | <.0001 |
| **Error** | 35 | 1000.04052 | 28.57259 | | |
| **Corrected Total** | 36 | 4218.00000 | | | |

| | | | |
|---|---|---|---|
| **Root MSE** | 5.34533 | **R-Square** | 0.7629 |
| **Dependent Mean** | 19.00000 | **Adj R-Sq** | 0.7561 |
| **Coeff Var** | 28.13333 | | |

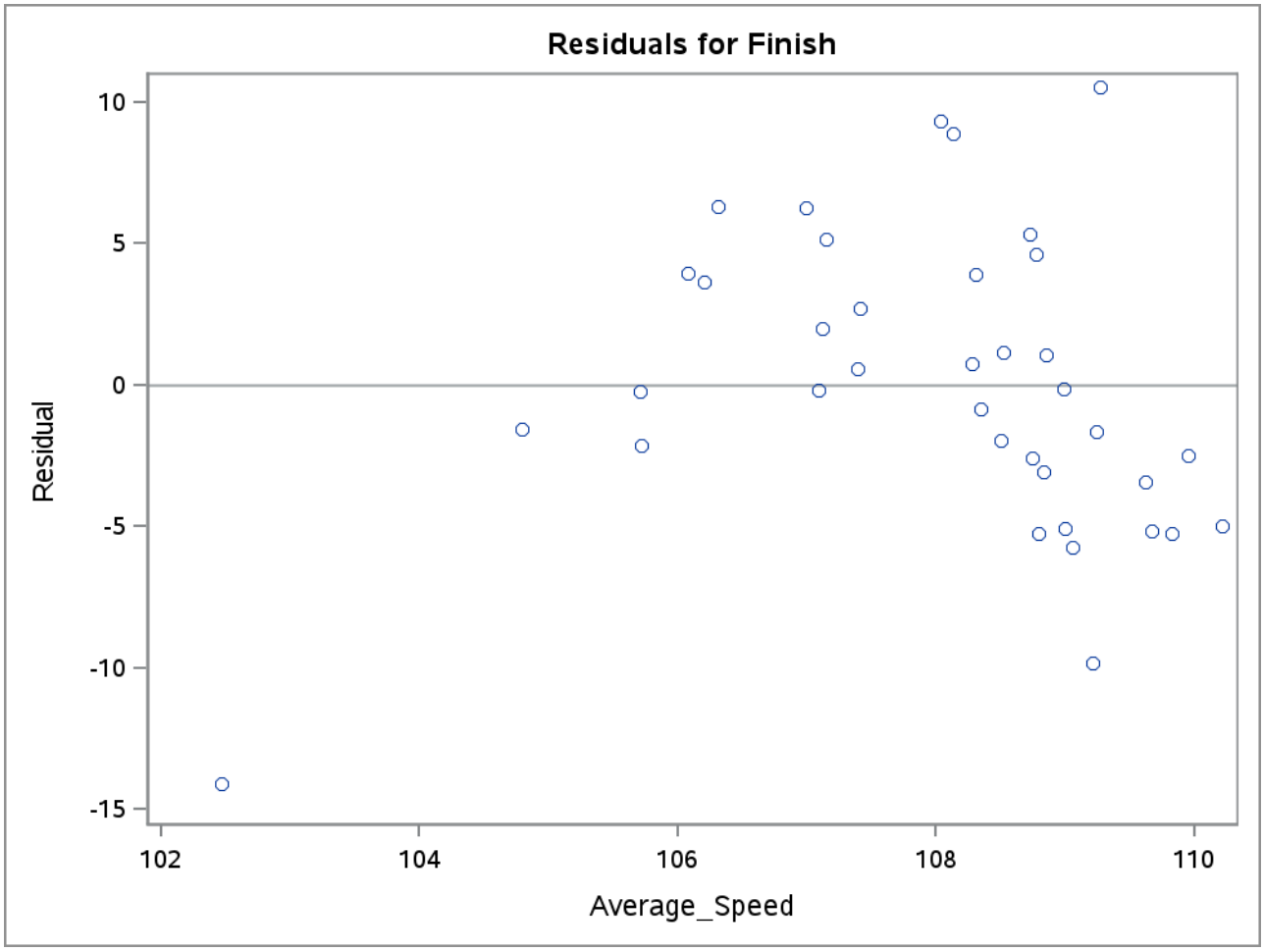
**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | 647.37616 | 59.21777 | 10.93 | <.0001 |
| **Average_Speed** | 1 | -5.81910 | 0.54833 | -10.61 | <.0001 |

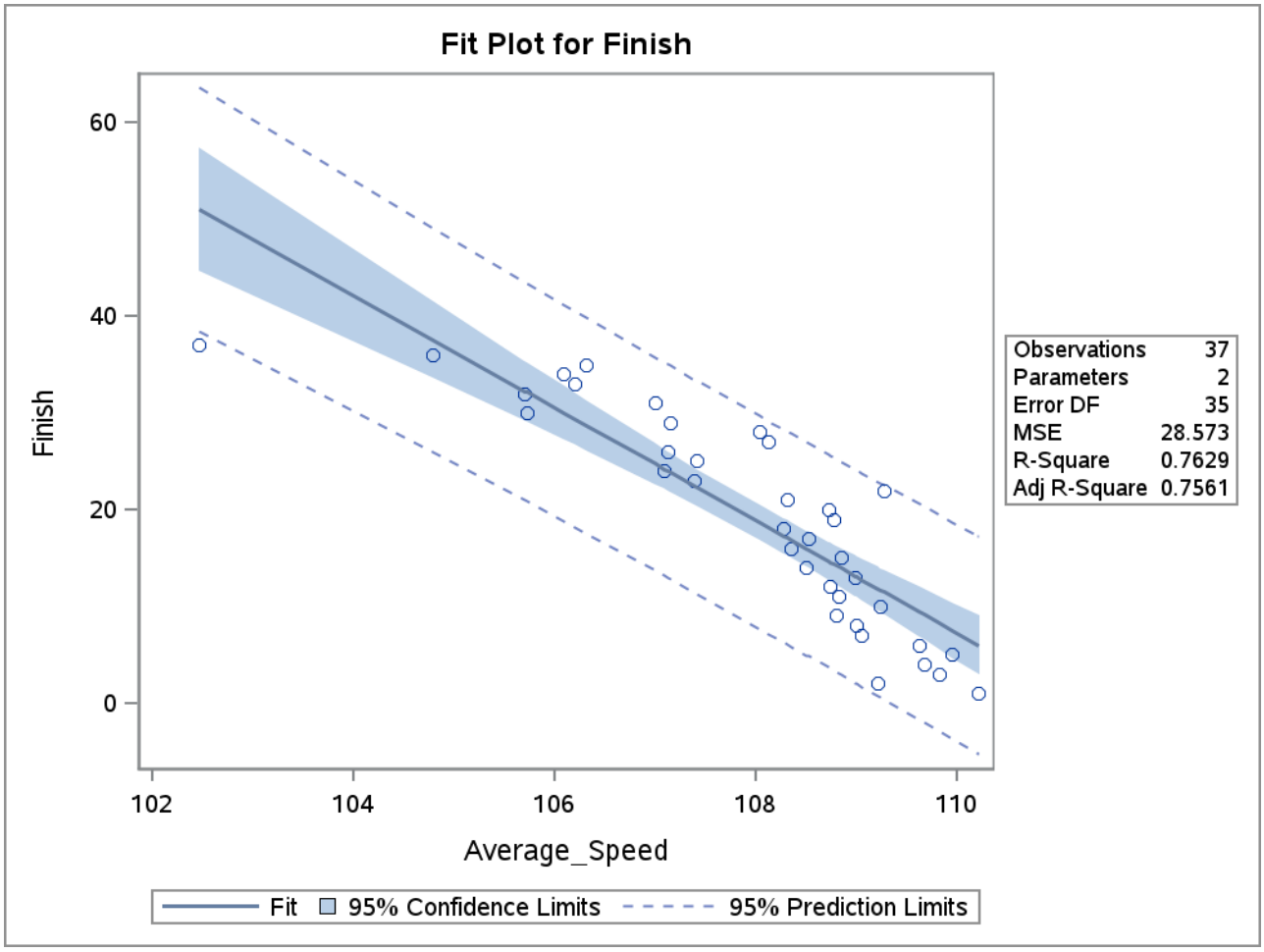
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Finish**



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



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



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

| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

**Analysis of Variance**

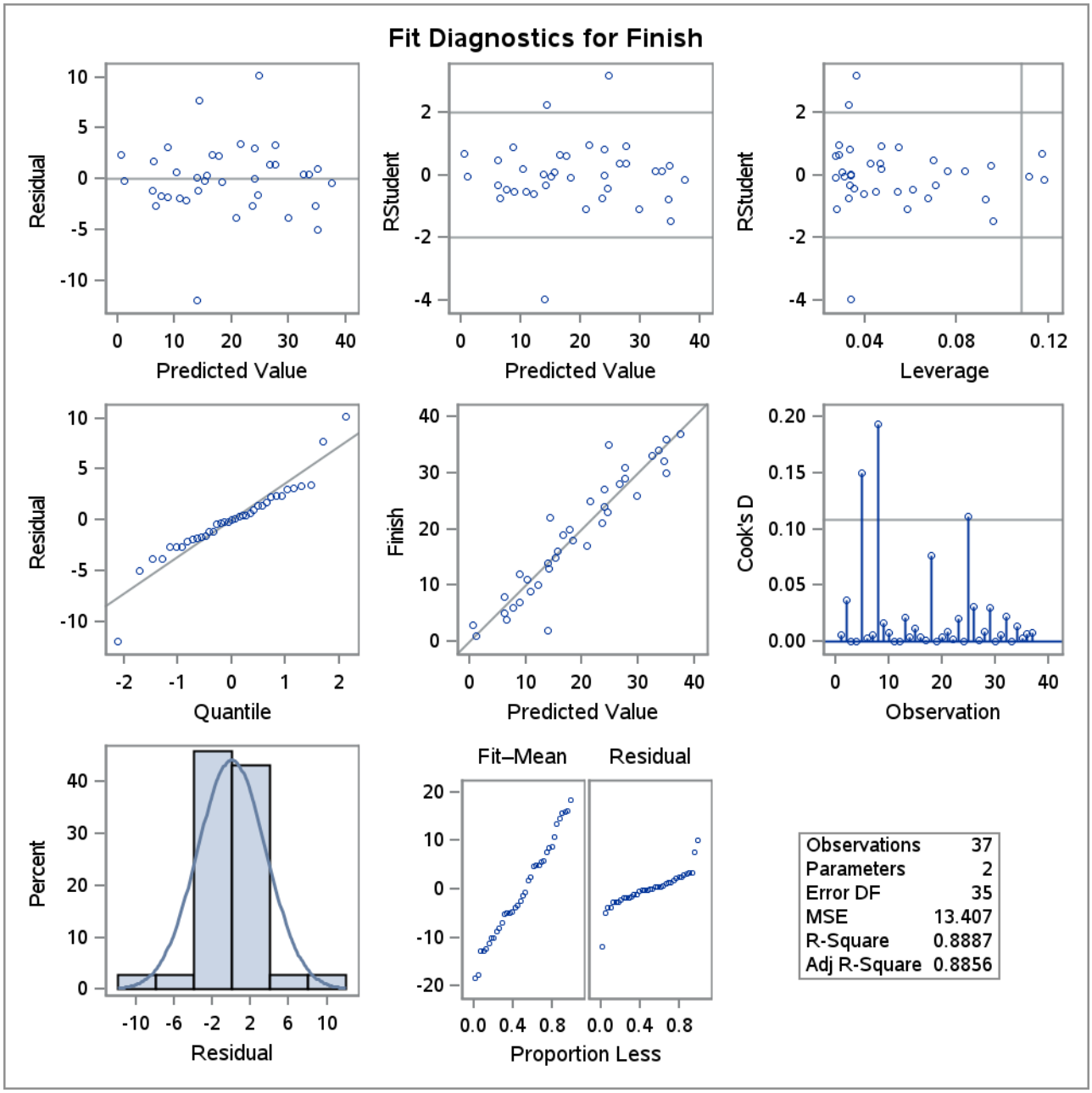
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 3748.73880 | 3748.73880 | 279.60 | <.0001 |
| **Error** | 35 | 469.26120 | 13.40746 | | |
| **Corrected Total** | 36 | 4218.00000 | | | |

| | | | |
|---|---|---|---|
| **Root MSE** | 3.66162 | **R-Square** | 0.8887 |
| **Dependent Mean** | 19.00000 | **Adj R-Sq** | 0.8856 |
| **Coeff Var** | 19.27169 | | |

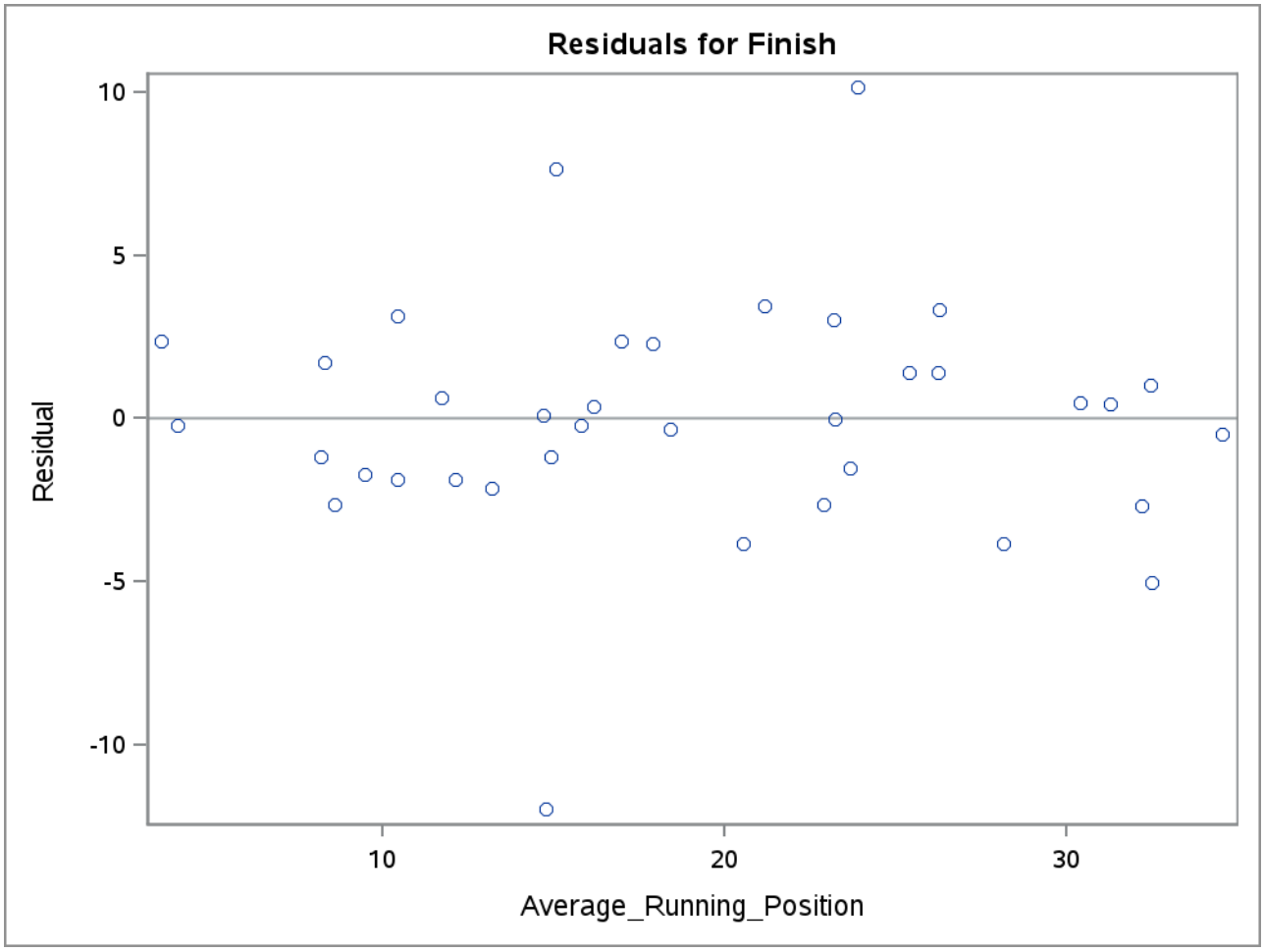
**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | -3.55638 | 1.47718 | -2.41 | 0.0215 |
| **Average_Running_Position** | 1 | 1.18718 | 0.07100 | 16.72 | <.0001 |

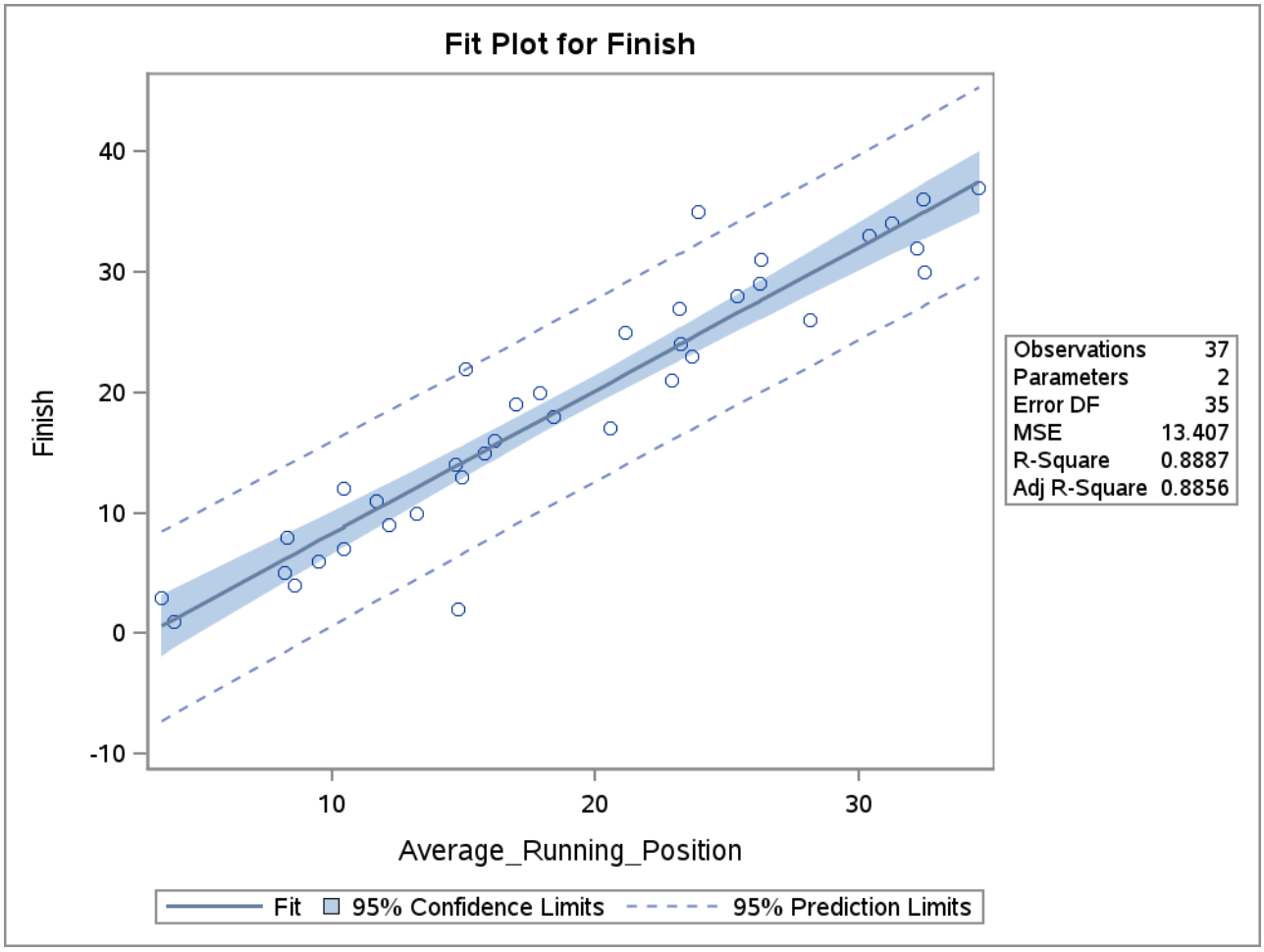
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Finish**



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



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



# Average Running Position vs. Points

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

| | |
|---|---|
| **Number of Observations Read** | 37 |
| **Number of Observations Used** | 37 |

**Analysis of Variance**

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| **Model** | 1 | 6914.12262 | 6914.12262 | 288.02 | <.0001 |
| **Error** | 35 | 840.20170 | 24.00576 | | |
| **Corrected Total** | 36 | 7754.32432 | | | |

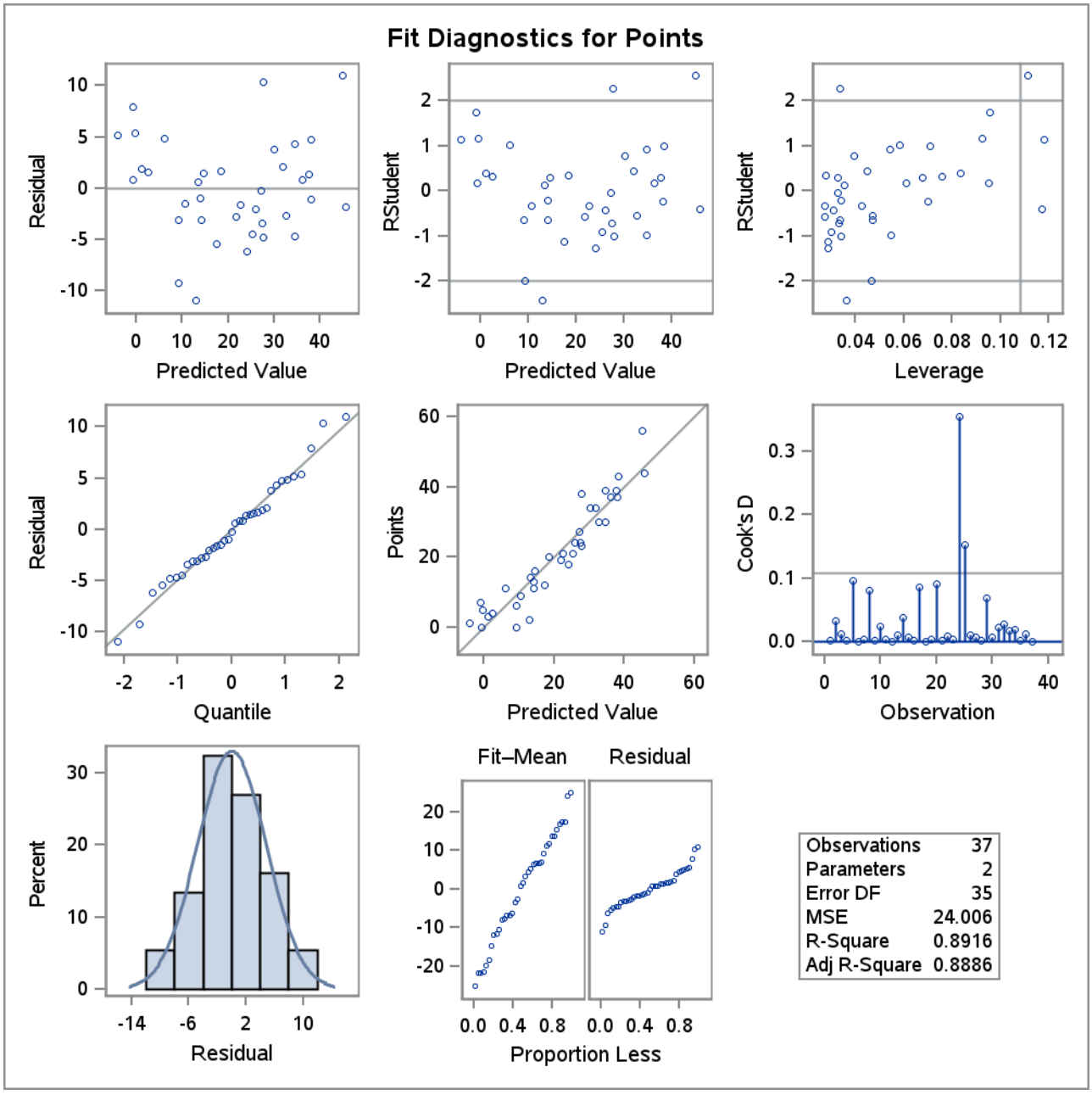
| | | | |
|---|---|---|---|
| **Root MSE** | 4.89957 | **R-Square** | 0.8916 |
| **Dependent Mean** | 20.86486 | **Adj R-Sq** | 0.8886 |
| **Coeff Var** | 23.48238 | | |

**Parameter Estimates**

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
|---|---|---|---|---|---|
| **Intercept** | 1 | 51.49828 | 1.97660 | 26.05 | <.0001 |
| **Average_Running_Position** | 1 | -1.61228 | 0.09500 | -16.97 | <.0001 |

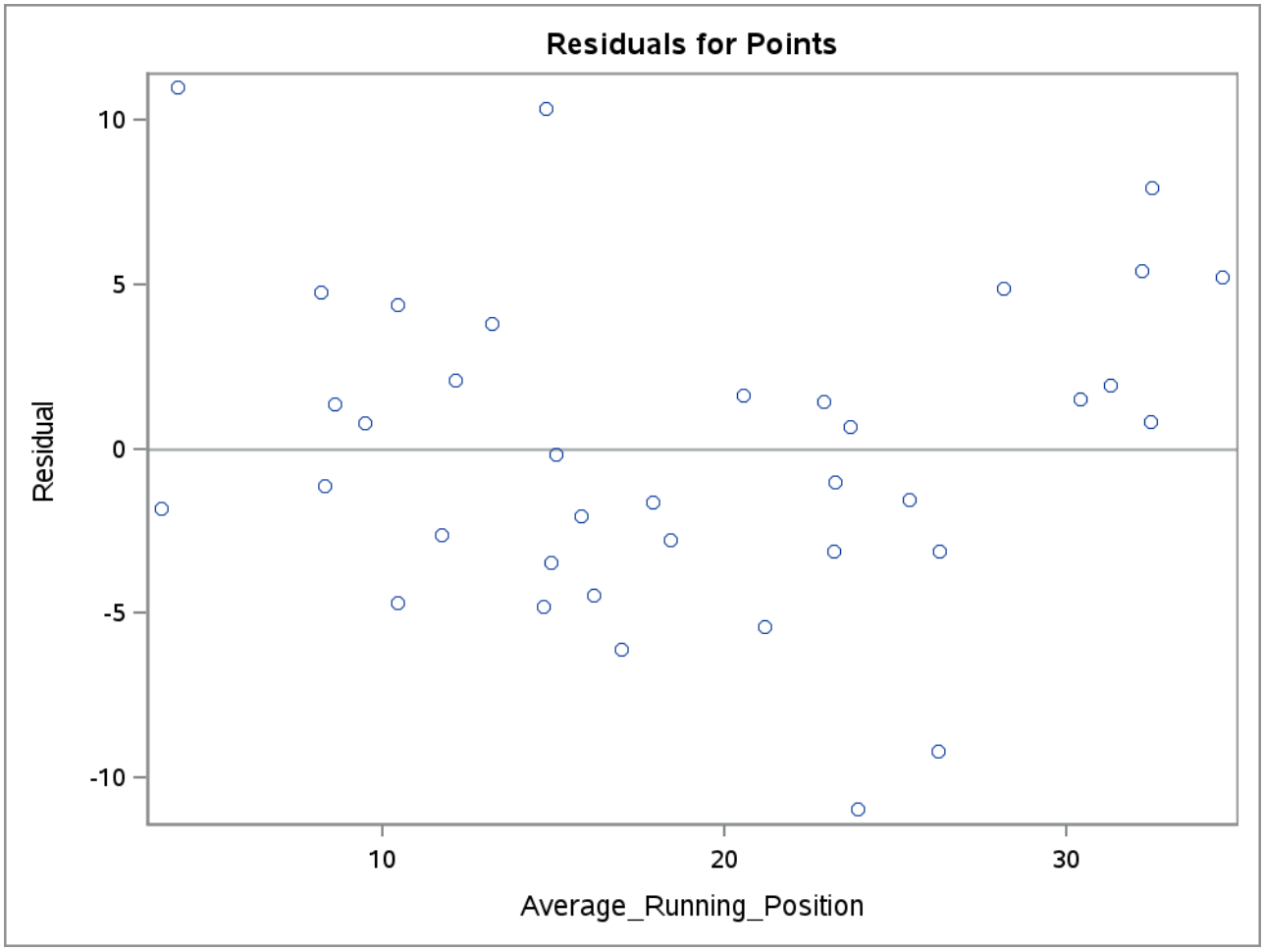
# Average Running Position vs. Points

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



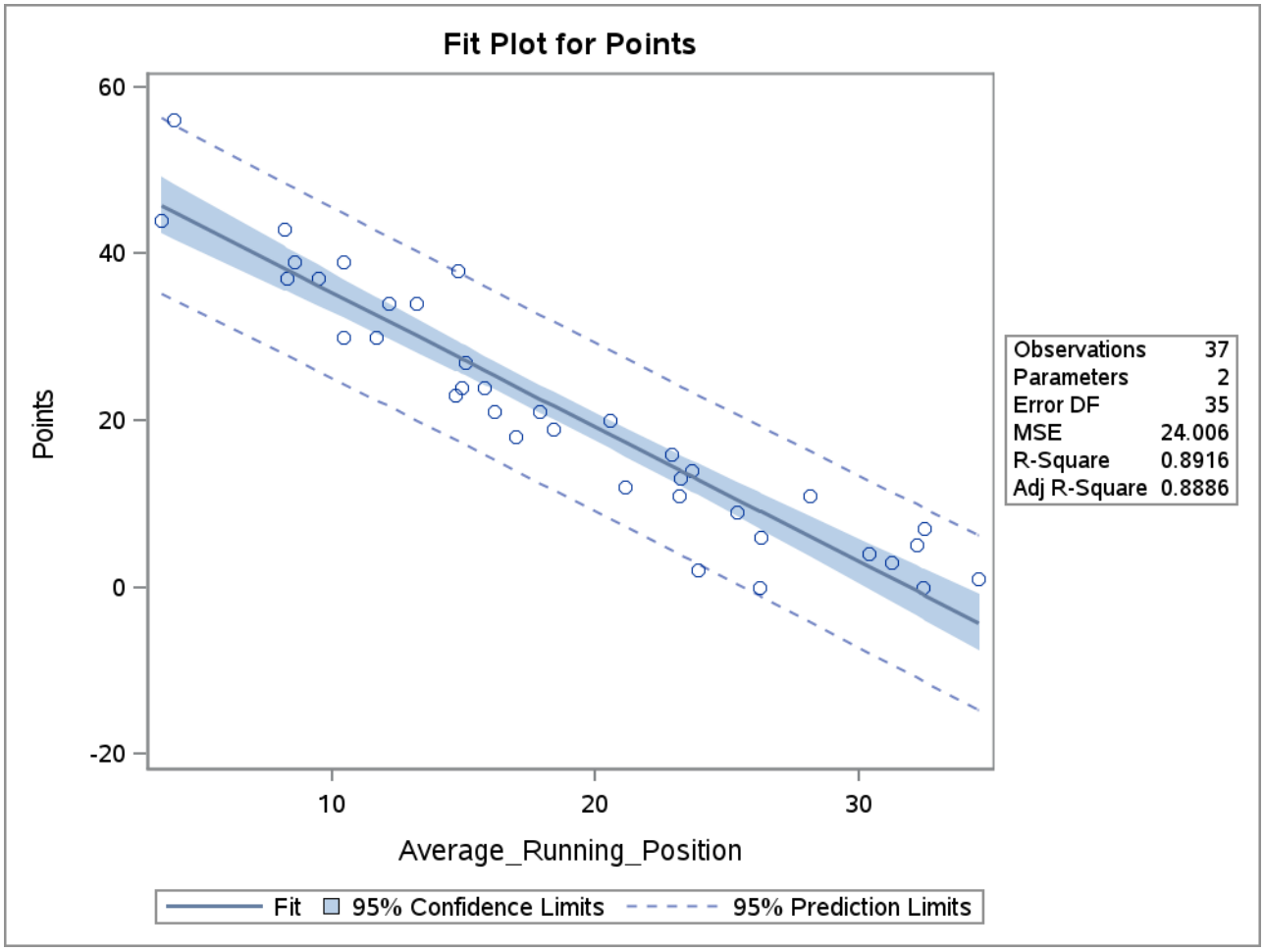
# Average Running Position vs. Points

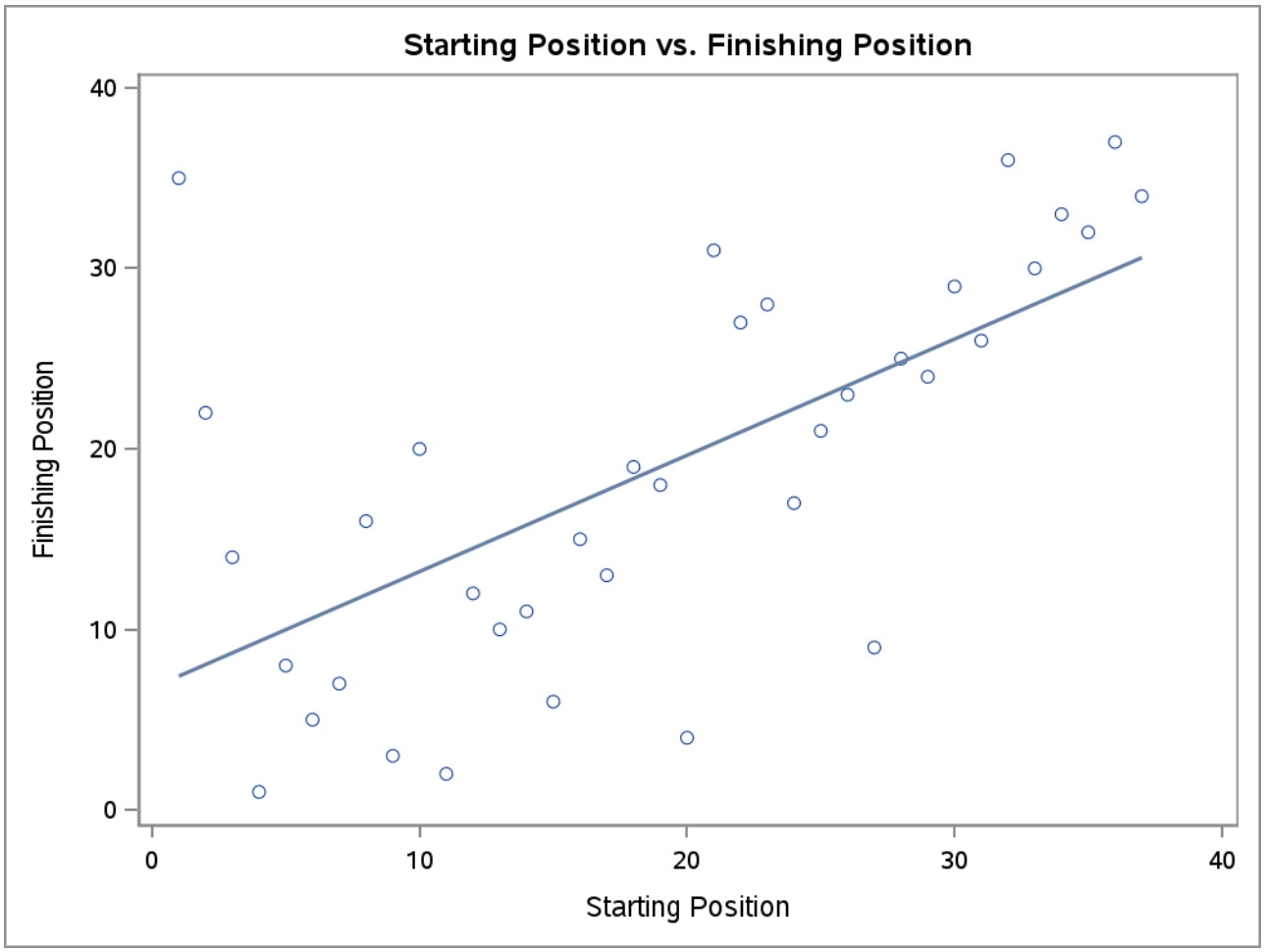
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Points**

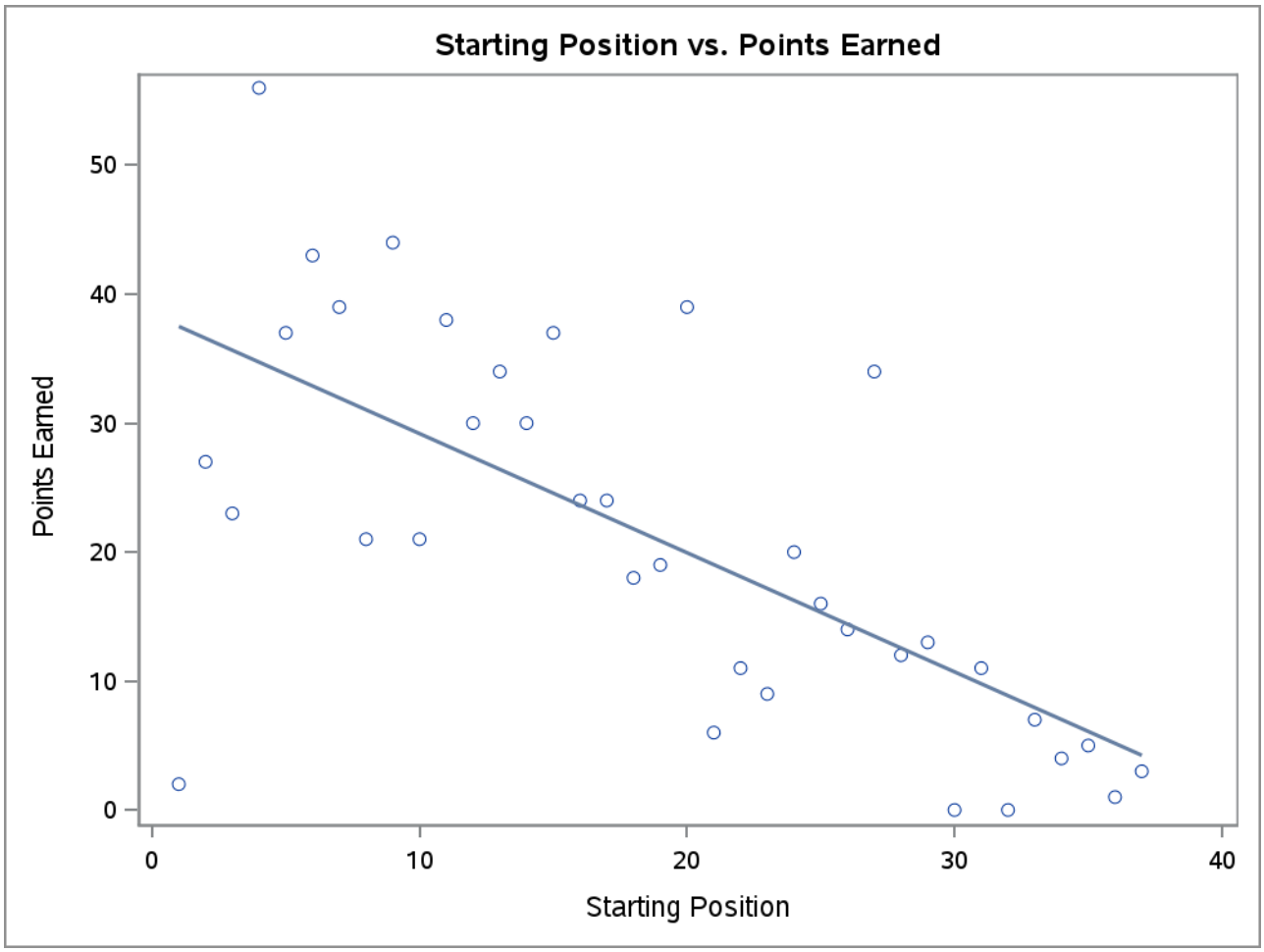


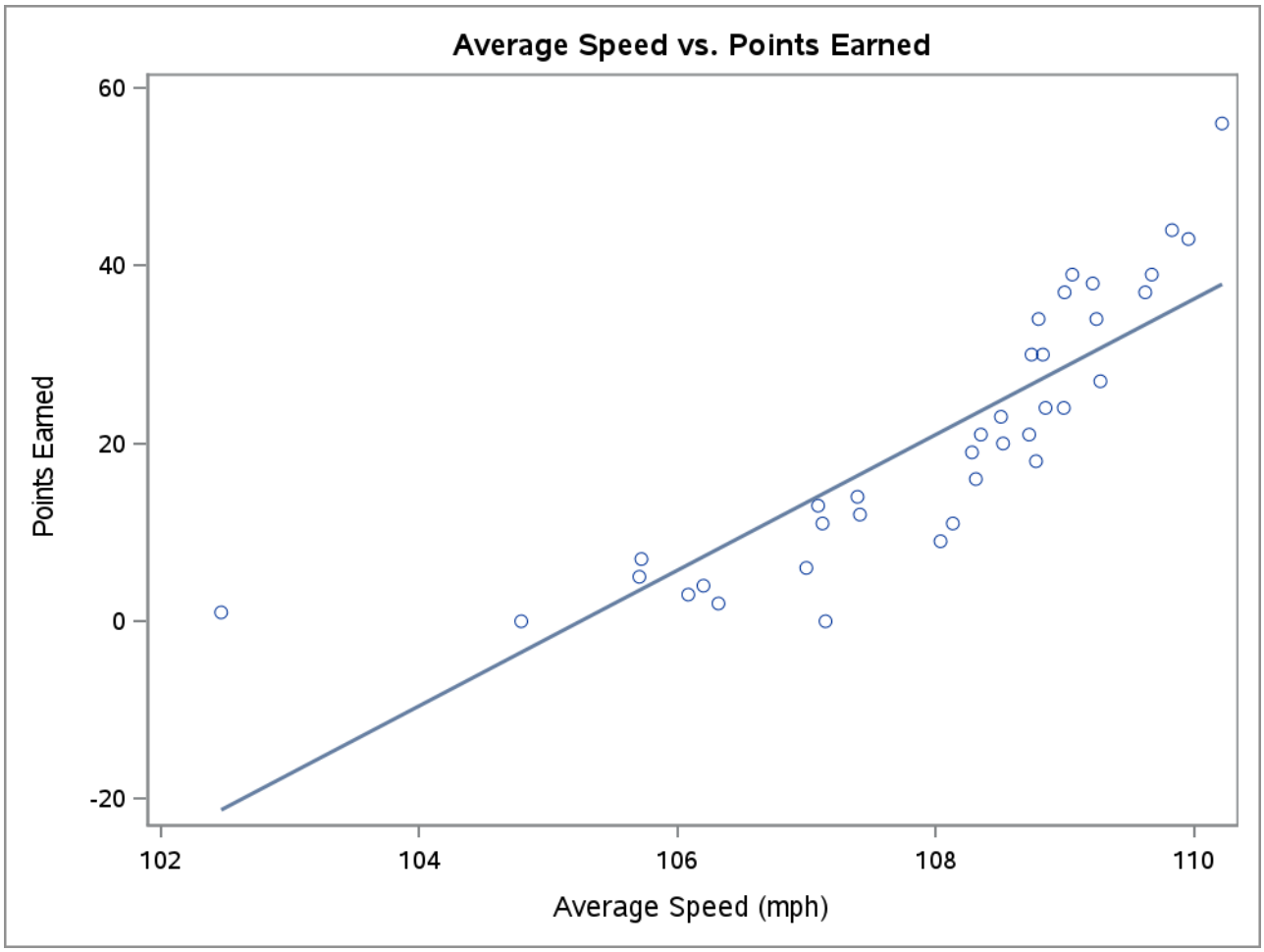
# Average Running Position vs. Points

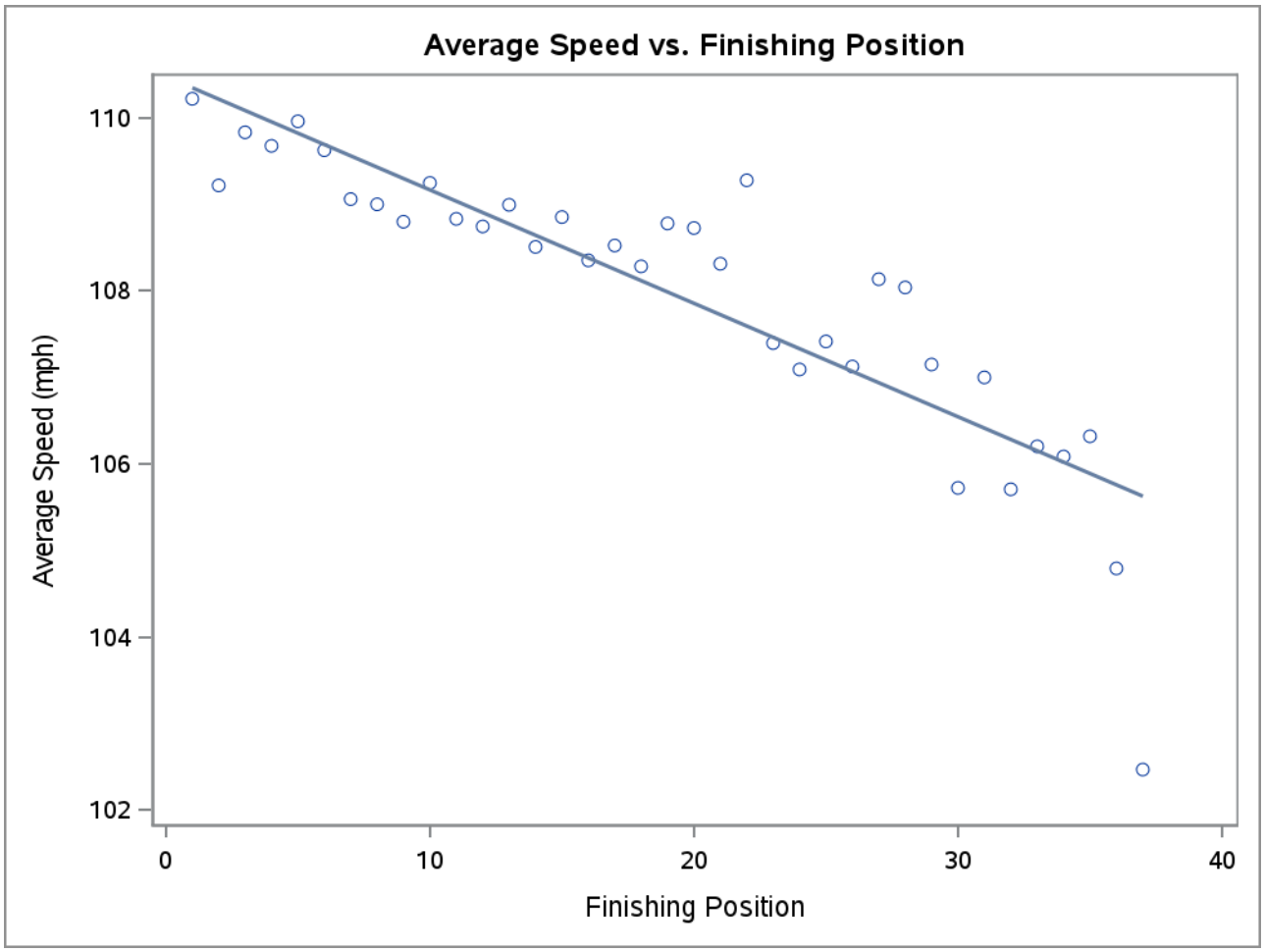
**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: Points**

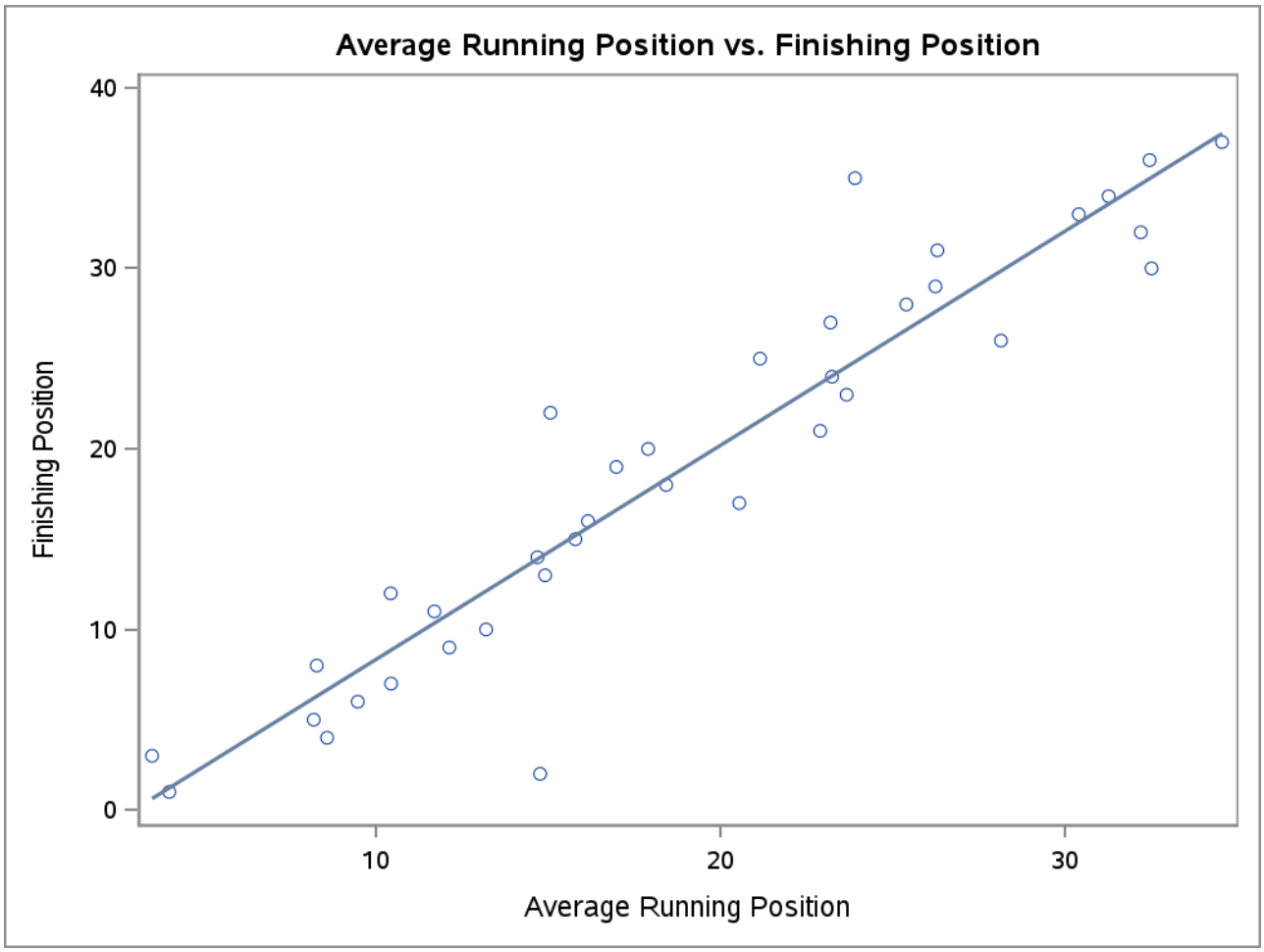


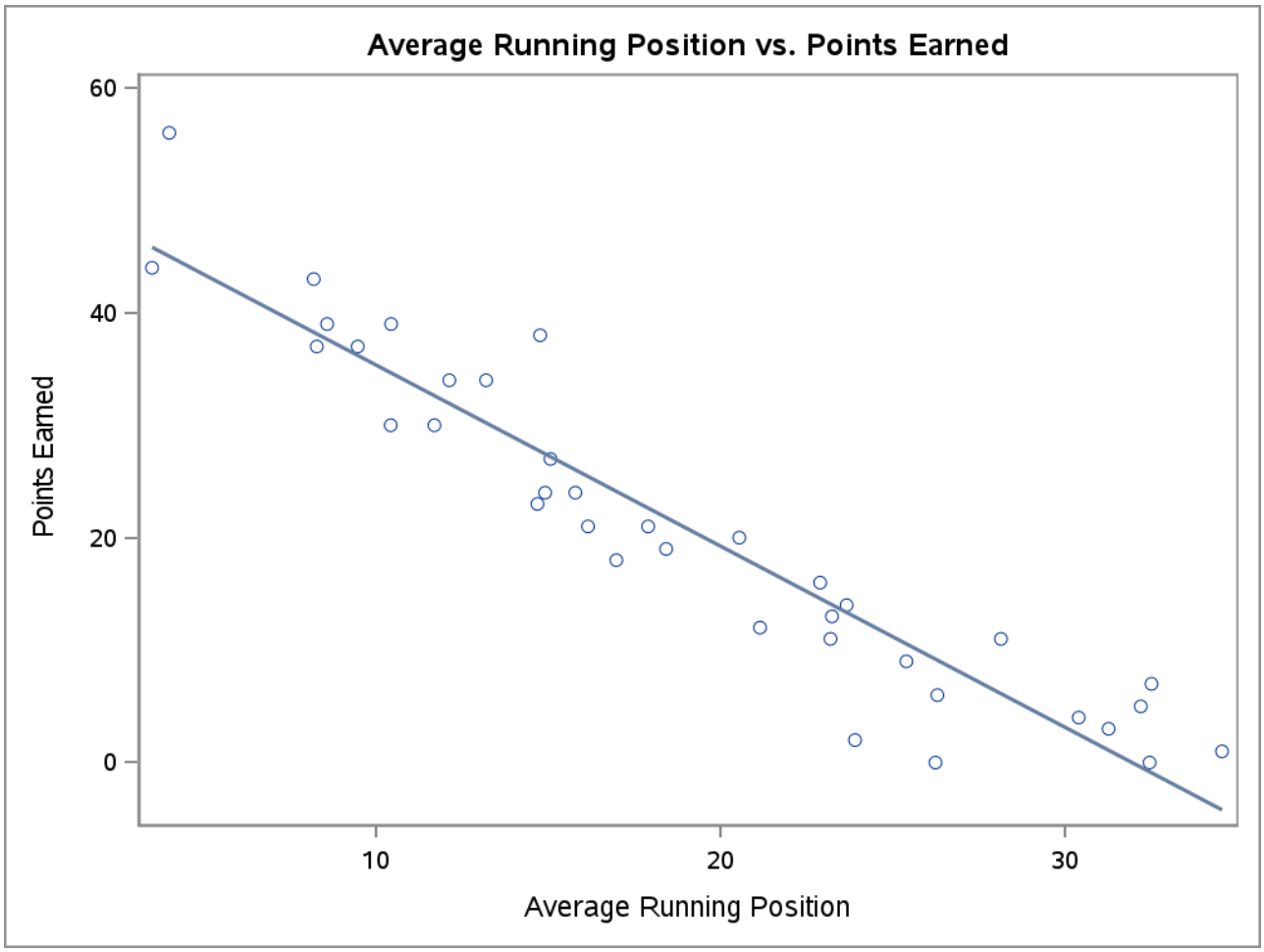

Starting Position vs. Finishing Position
Finishing Position
Starting Position
0
10
20
30
40


Starting Position vs. Points Earned
Points Earned
0
10
20
30
40
50
0
10
20
30
40
Starting Position


Average Speed vs. Points Earned
Points Earned
60
40
20
0
-20
102
104
106
108
110
Average Speed (mph)


Average Speed vs. Finishing Position
Average Speed (mph)
110
108
106
104
102
0
10
20
30
40
Finishing Position


Average Running Position vs. Finishing Position
Finishing Position
40
30
20
10
0
10
20
30
Average Running Position


Average Running Position vs. Points Earned
Points Earned
60
40
20
0
10
20
30
Average Running Position