



# **VETERINARIA**

RIVISTA DI  
SANITÀ PUBBLICA  
VETERINARIA

# **ITALIANA**

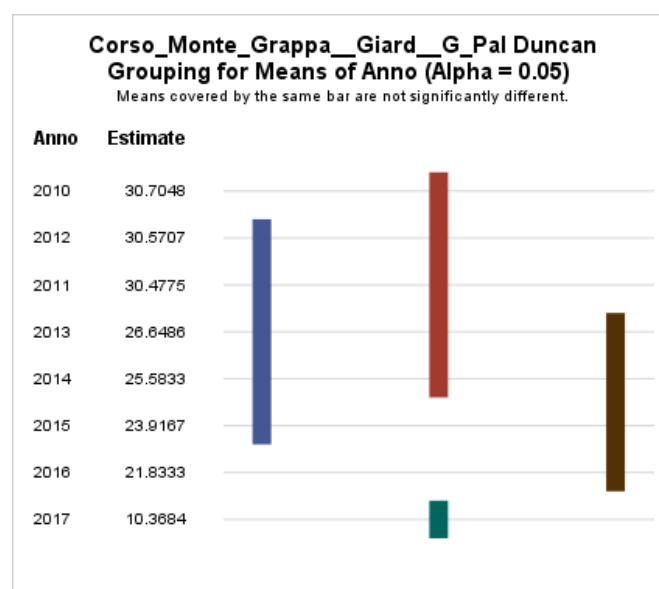
**Supplementary material**



## Appendix 1: Duncan's Test Results

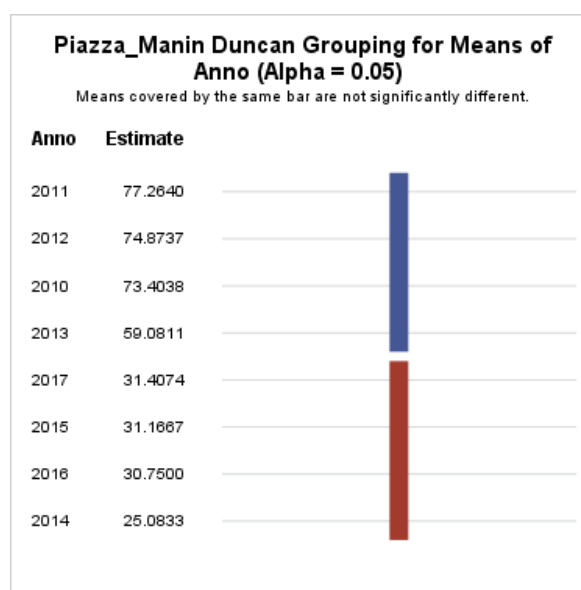
Corso Montegrappa

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 5.977 | 6.293 | 6.504 | 6.660 | 6.782 | 6.881 | 6.965 |



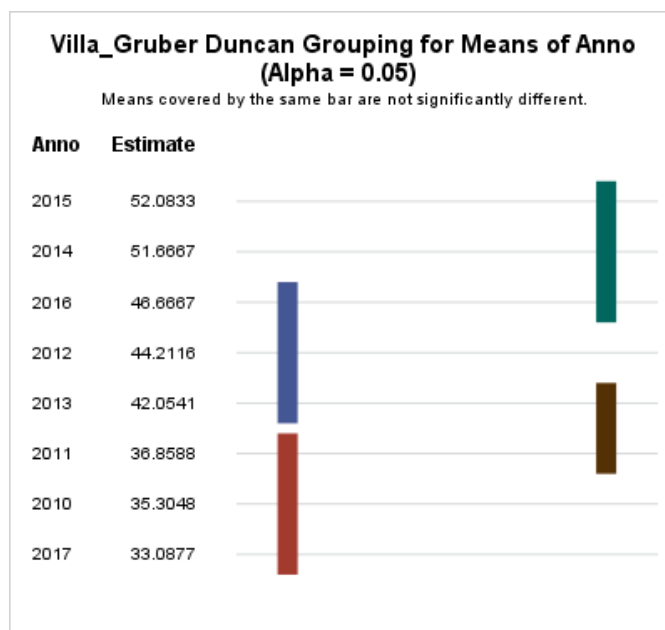
Piazza\_Manin

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 25.19 | 26.52 | 27.41 | 28.06 | 28.58 | 29.00 | 29.35 |



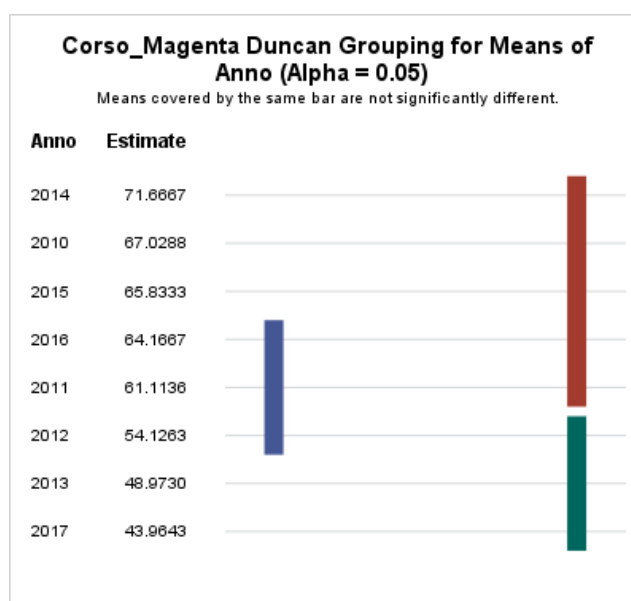
## Villa Gruber

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 5.962 | 6.277 | 6.488 | 6.643 | 6.765 | 6.864 | 6.947 |



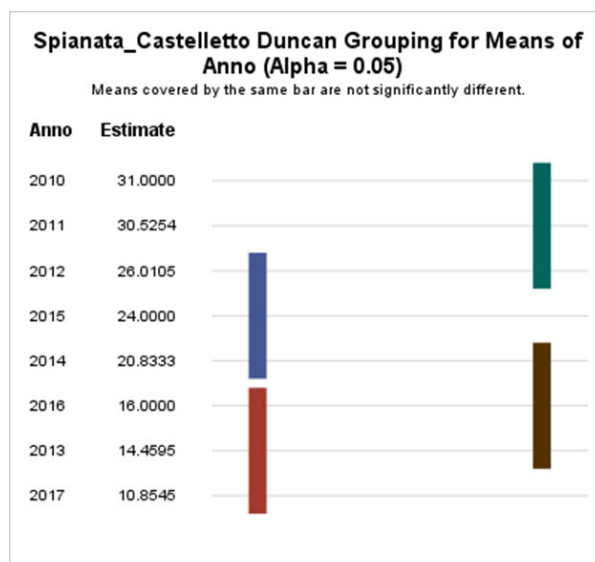
## Corso Magenta

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 10.74 | 11.30 | 11.68 | 11.96 | 12.18 | 12.36 | 12.51 |



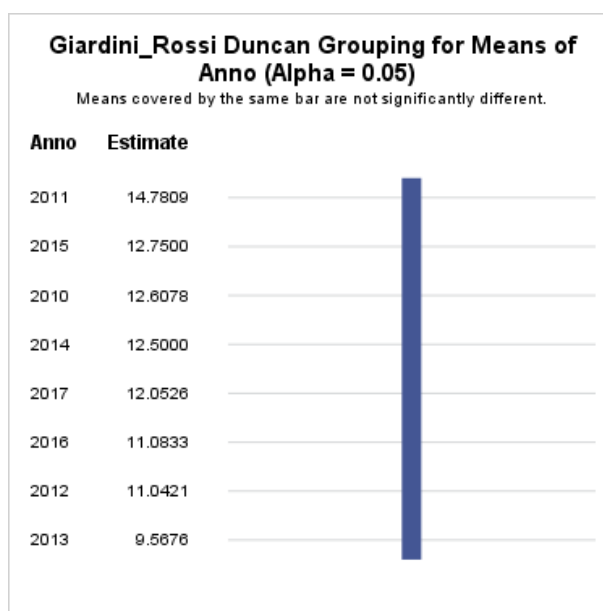
## Spianata Castelletto

| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Critical range | 6.141 | 6.465 | 6.682 | 6.842 | 6.967 | 7.070 | 7.155 |



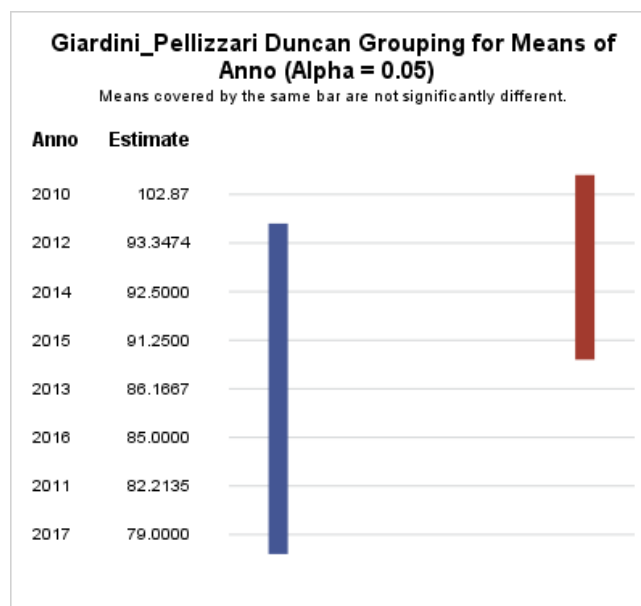
## Giardini Rossi

| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Critical range | 4.573 | 4.815 | 4.977 | 5.096 | 5.189 | 5.265 | 5.329 |



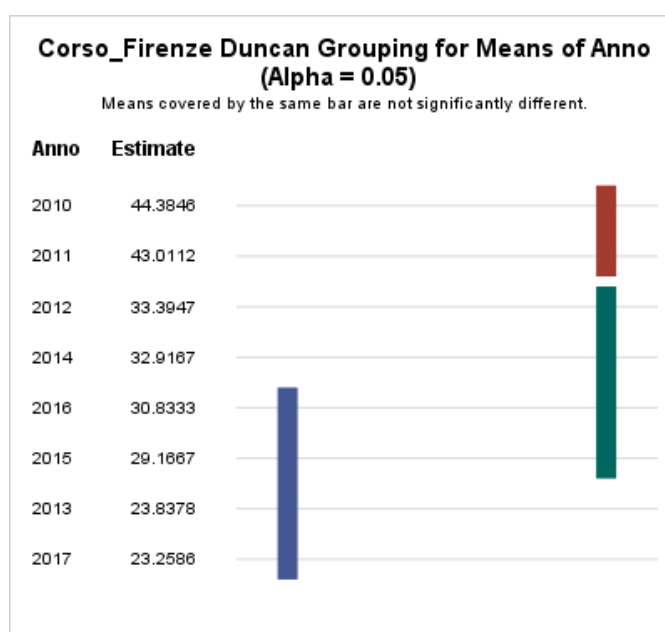
## Giardini Pellizzari

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 14.75 | 15.53 | 16.05 | 16.44 | 16.74 | 16.98 | 17.19 |



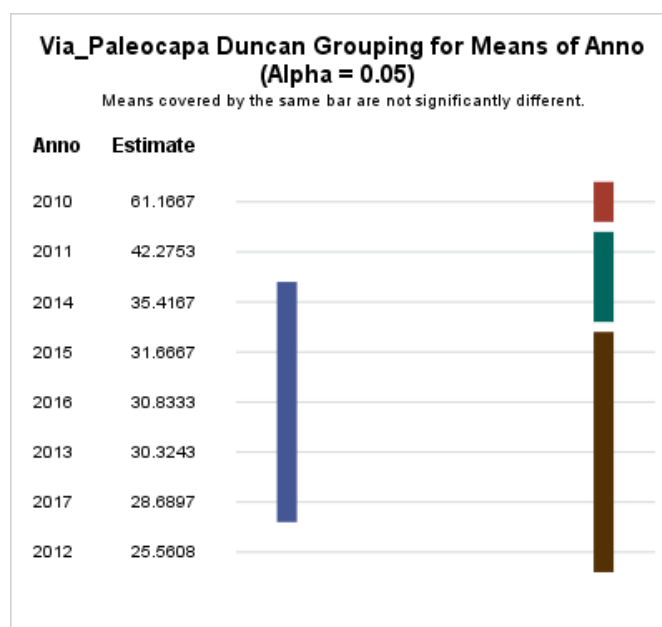
## Corso Firenze

|                |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Critical range | 7.276 | 7.660 | 7.918 | 8.107 | 8.256 | 8.377 | 8.478 |



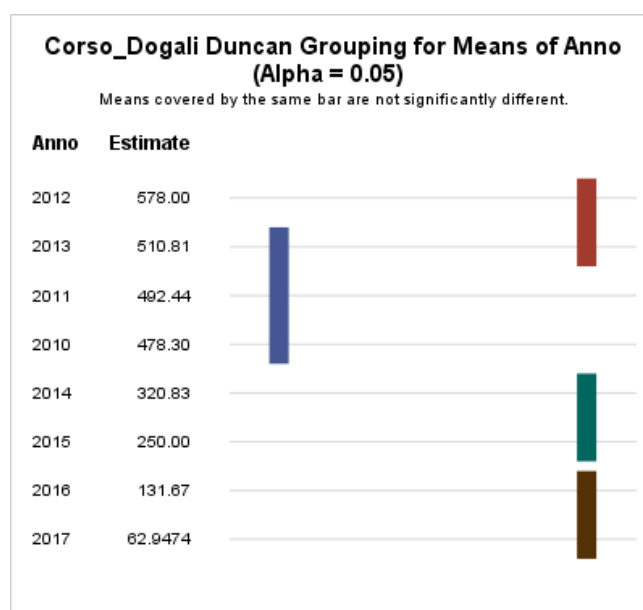
## Via Paleocapa

| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Critical range | 8.353 | 8.794 | 9.088 | 9.306 | 9.477 | 9.615 | 9.731 |



## Corso Dogali

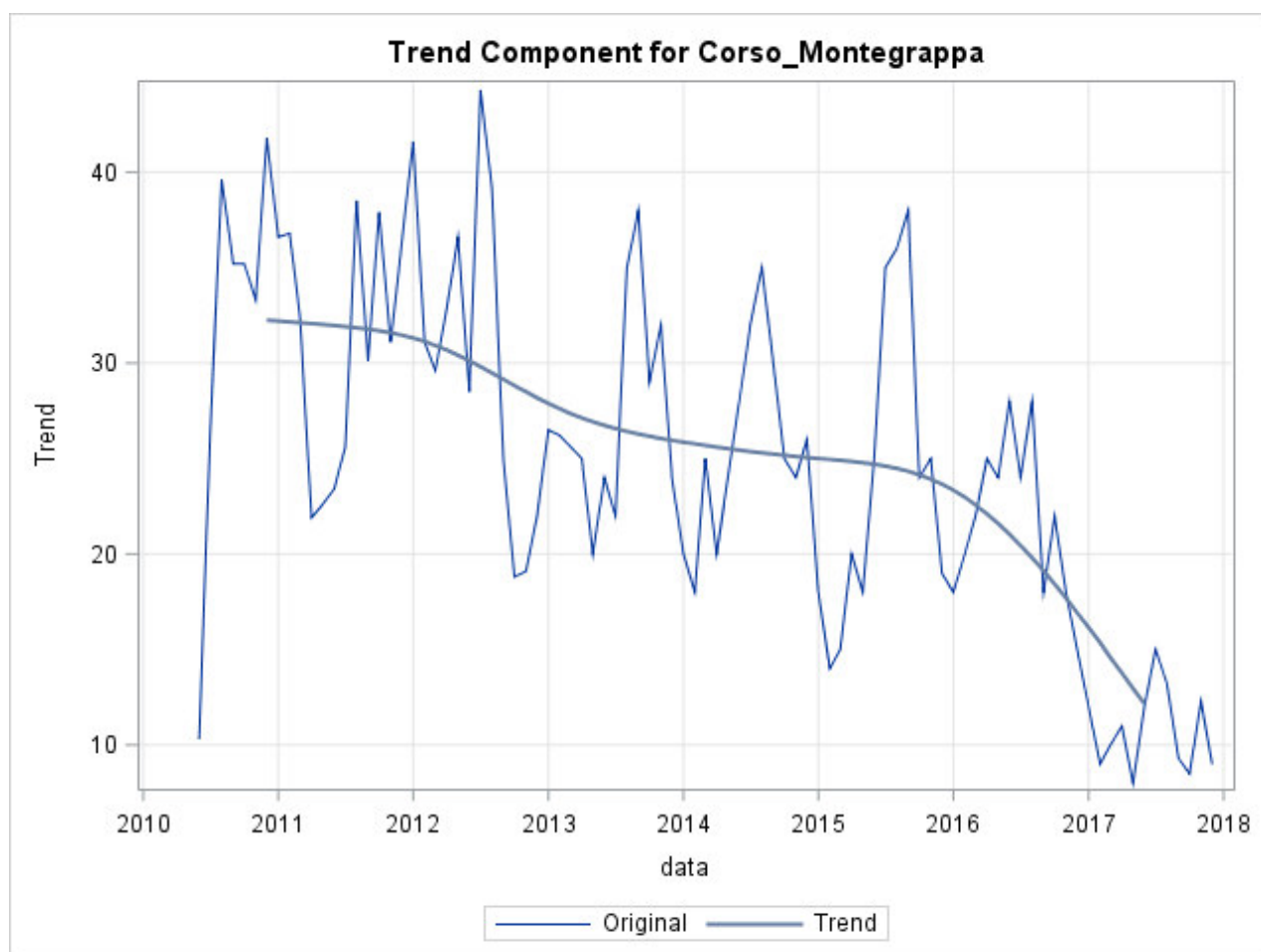
| Mean number    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| Critical range | 73.51 | 77.40 | 79.99 | 81.91 | 83.41 | 84.63 | 85.66 |



## Appendix 2: Analysis of Variance Results

### Corso Monte Grappa

| Analysis variable: Corso_Monte_Grappa |        |         |        |         |      |
|---------------------------------------|--------|---------|--------|---------|------|
| Year                                  | N. obs | Minimum | Median | Maximum | Mean |
| 2010                                  | 105    | 0.0     | 34.0   | 48.0    | 30.7 |
| 2011                                  | 178    | 0.0     | 31.0   | 54.0    | 30.5 |
| 2012                                  | 191    | 0.0     | 30.0   | 58.0    | 30.6 |
| 2013                                  | 37     | 9.0     | 26.0   | 39.0    | 26.6 |
| 2014                                  | 12     | 18.0    | 25.0   | 35.0    | 25.6 |
| 2015                                  | 12     | 14.0    | 22.0   | 38.0    | 23.9 |
| 2016                                  | 12     | 15.0    | 22.0   | 28.0    | 21.8 |
| 2017                                  | 58     | 0.0     | 10.0   | 25.0    | 10.4 |



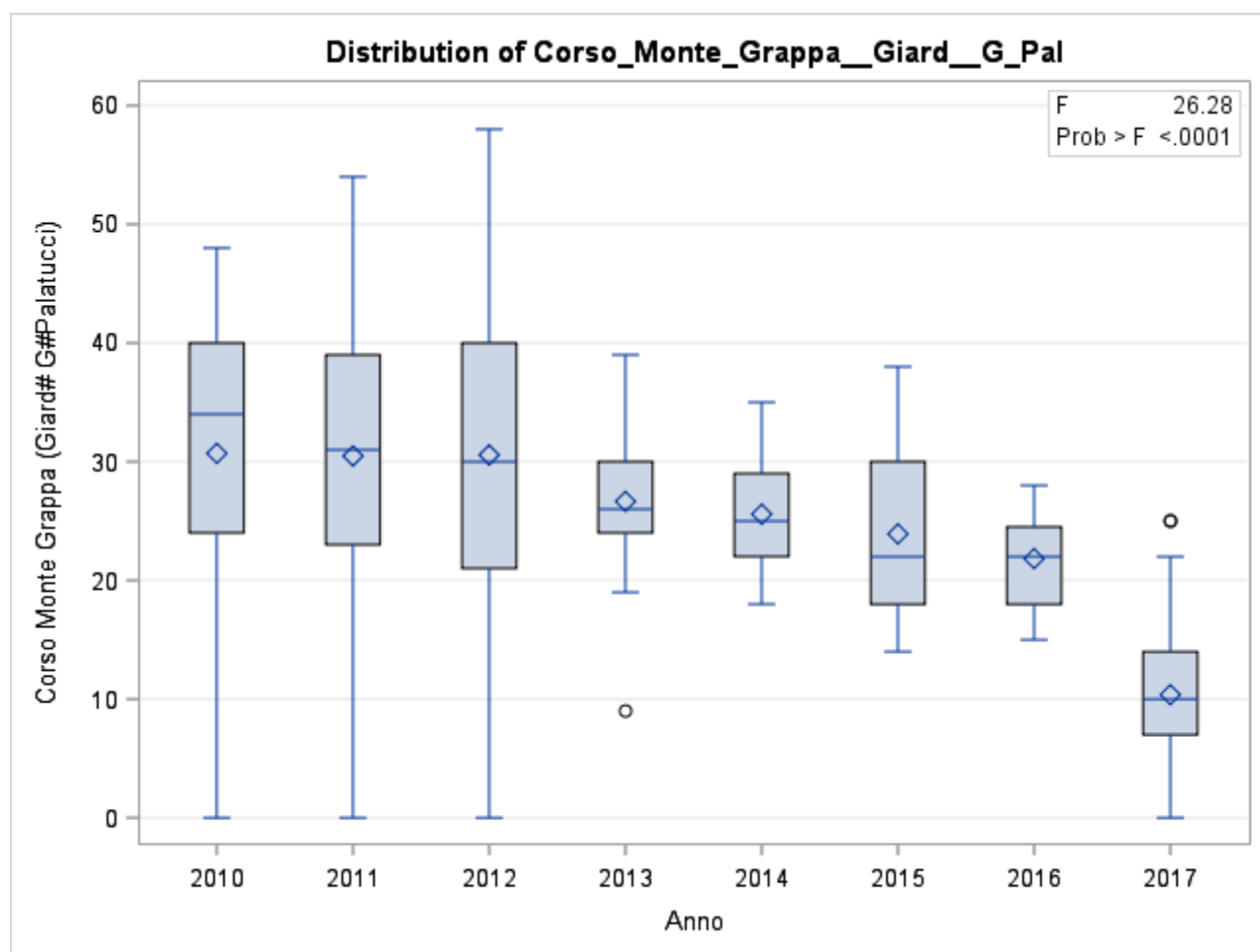
## Analysis of Variance

Dependent variable: Corso\_Monte\_Grappa

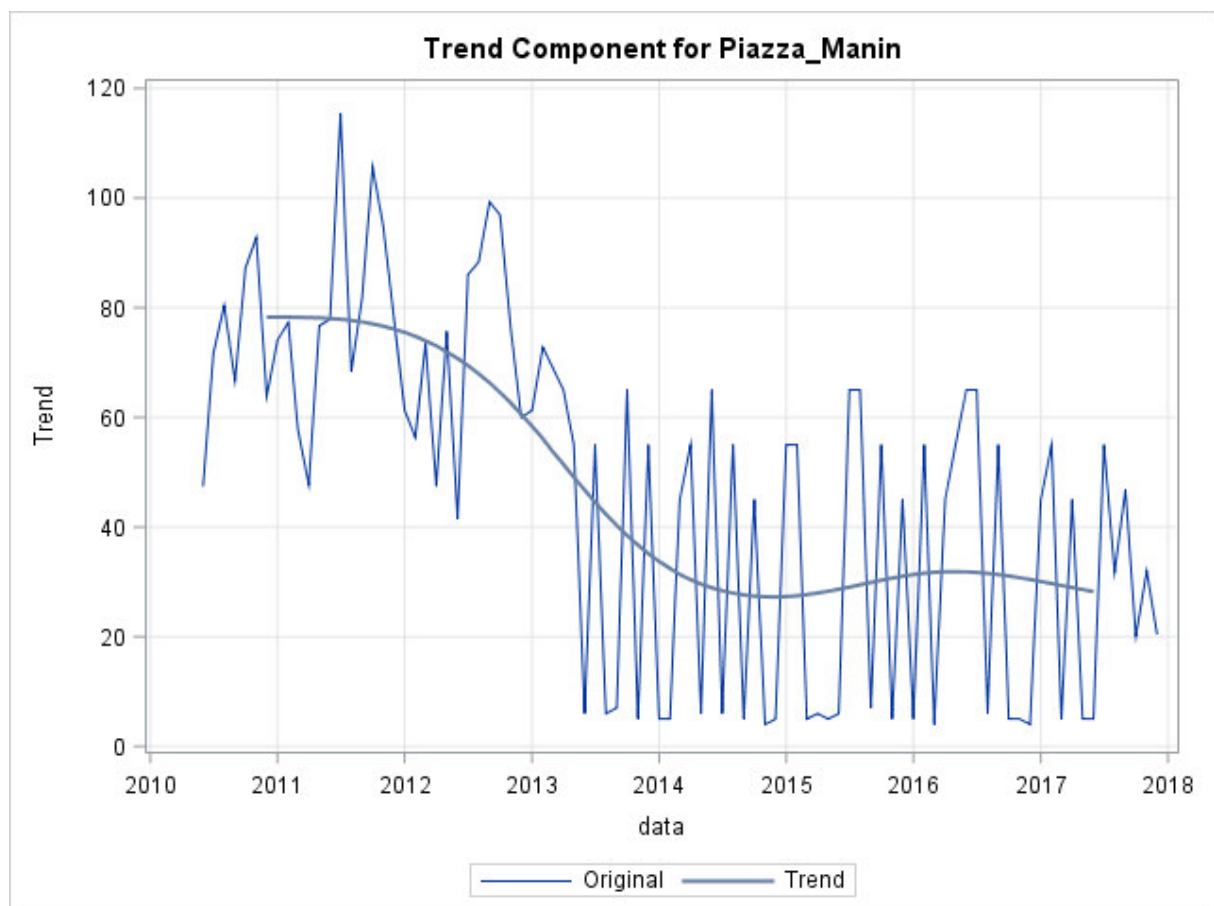
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 21636.61676    | 3090.94525  | 26.28   | <0.0001 |
| <b>Error</b>           | 596 | 70110.24913    | 117.63465   |         |         |
| <b>Corrected total</b> | 603 | 91746.86589    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Corso Monte Grappa |
|----------|-----------|----------|----------------------------|
| 0.235829 | 38.71494  | 10.84595 | 28.01490                   |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 21636.61676 | 3090.94525  | 26.28   | <0.0001 |



| Analysis variable: Piazza_Manin |        |         |        |         |      |
|---------------------------------|--------|---------|--------|---------|------|
| Year                            | N. obs | Minimum | Median | Maximum | Mean |
| 2010                            | 105    | 1.0     | 77.0   | 161.0   | 73.4 |
| 2011                            | 178    | 1.0     | 85.0   | 178.0   | 77.3 |
| 2012                            | 191    | 1.0     | 85.5   | 153.0   | 74.9 |
| 2013                            | 37     | 1.0     | 76.0   | 96.0    | 59.1 |
| 2014                            | 12     | 4.0     | 6.0    | 65.0    | 25.1 |
| 2015                            | 12     | 5.0     | 26.0   | 65.0    | 31.2 |
| 2016                            | 12     | 4.0     | 25.5   | 65.0    | 30.8 |
| 2017                            | 58     | 3.0     | 34.0   | 75.0    | 31.4 |



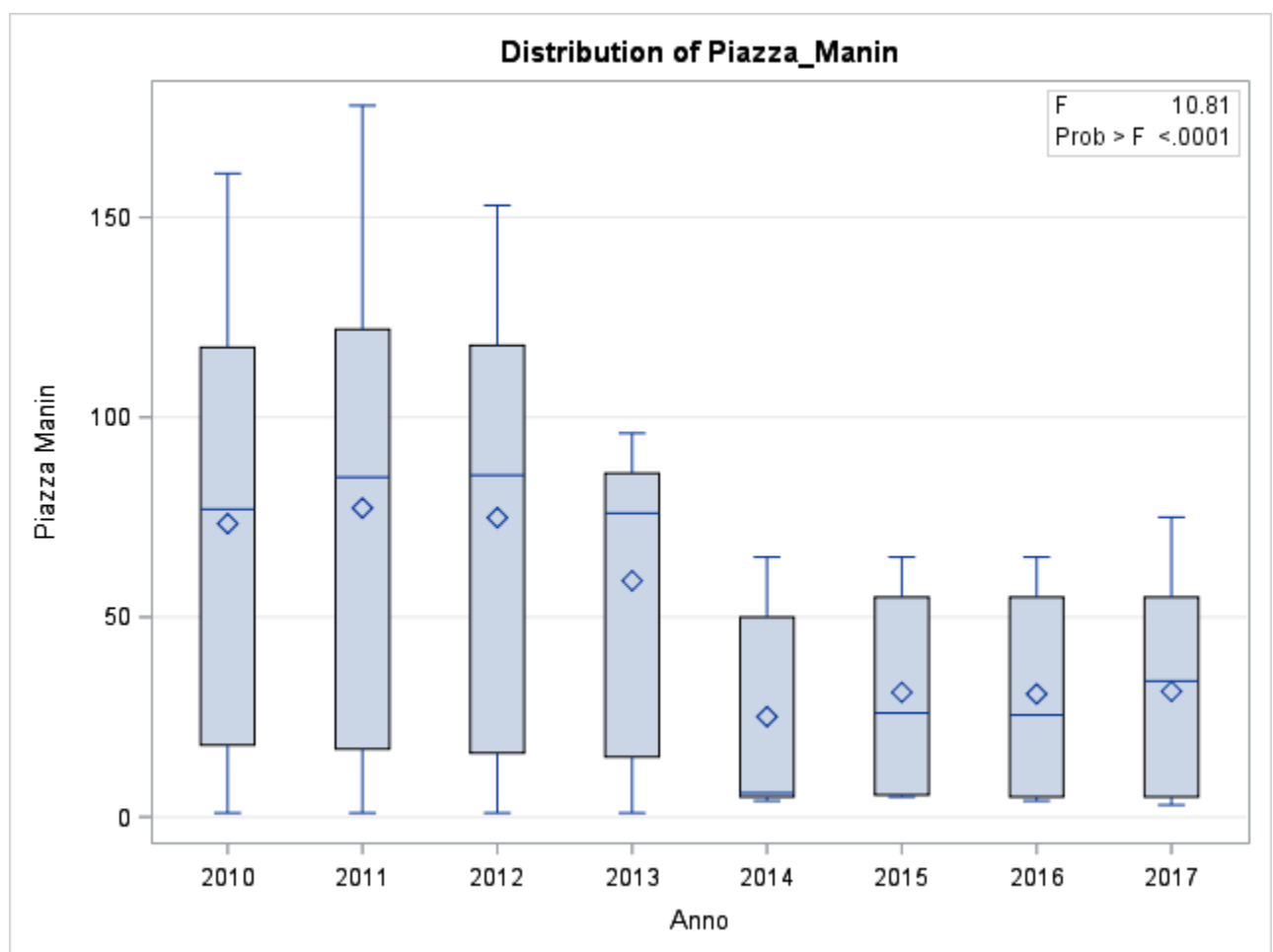
## Analysis of Variance

Dependent variable: Piazza Manin

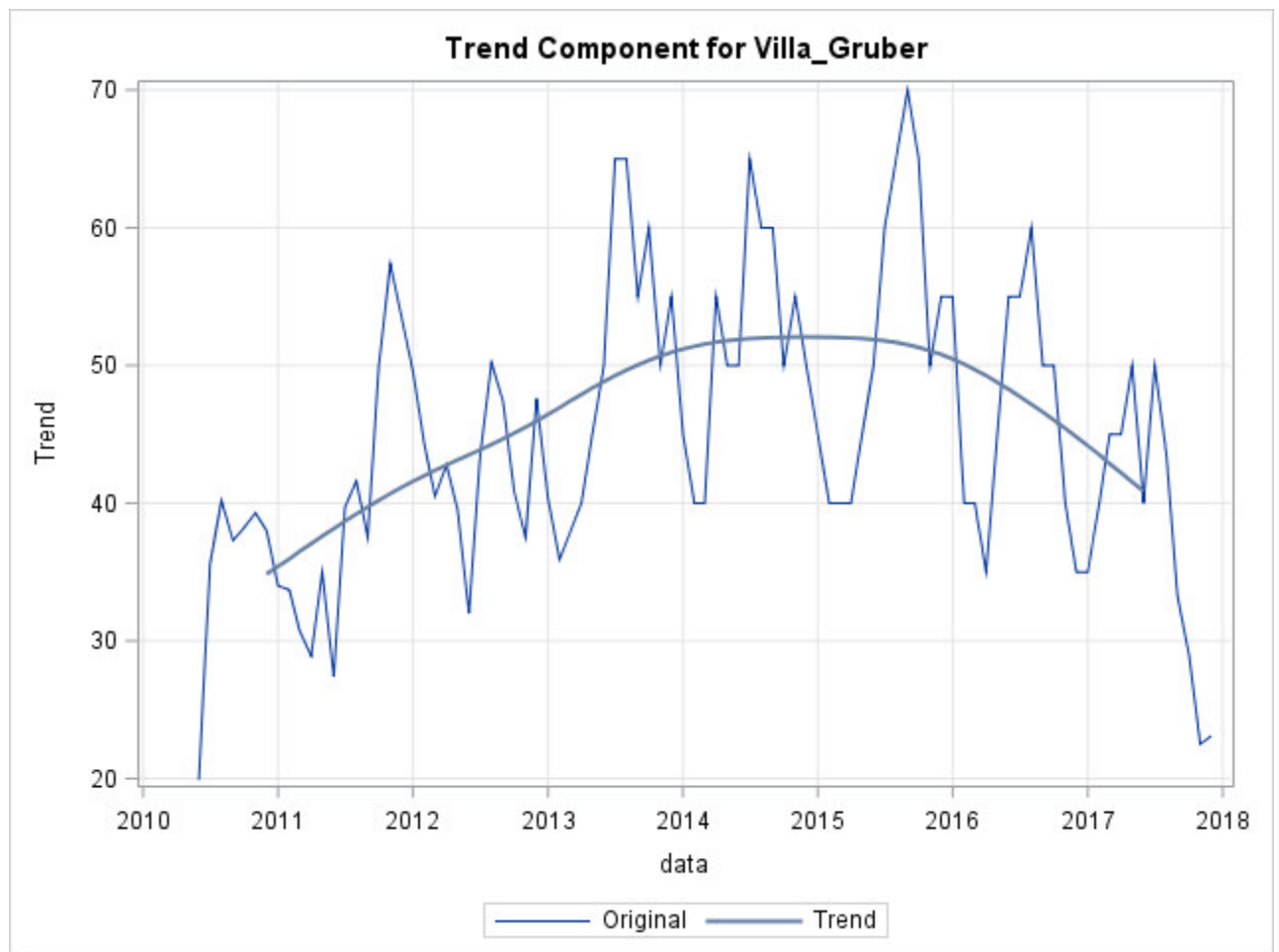
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 157511.591     | 22501.656   | 10.81   | <0.0001 |
| <b>Error</b>           | 591 | 1230039.224    | 2081.285    |         |         |
| <b>Corrected total</b> | 598 | 1387550.815    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Piazza_Manin |
|----------|-----------|----------|----------------------|
| 0.113518 | 67.40926  | 45.62110 | 67.67780             |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 157511.5908 | 22501.6558  | 10.81   | <0.0001 |



| Analysis variable: Villa_Gruber |        |         |        |         |      |
|---------------------------------|--------|---------|--------|---------|------|
| Year                            | N. obs | Minimum | Median | Maximum | Mean |
| 2010                            | 105    | 9.0     | 37.0   | 53.0    | 35.3 |
| 2011                            | 178    | 3.0     | 36.0   | 67.0    | 36.9 |
| 2012                            | 191    | 5.0     | 45.0   | 76.0    | 44.2 |
| 2013                            | 37     | 24.0    | 40.0   | 65.0    | 42.1 |
| 2014                            | 12     | 40.0    | 50.0   | 65.0    | 51.7 |
| 2015                            | 12     | 40.0    | 50.0   | 70.0    | 52.1 |
| 2016                            | 12     | 35.0    | 47.5   | 60.0    | 46.7 |
| 2017                            | 58     | 0.0     | 35.0   | 60.0    | 33.1 |



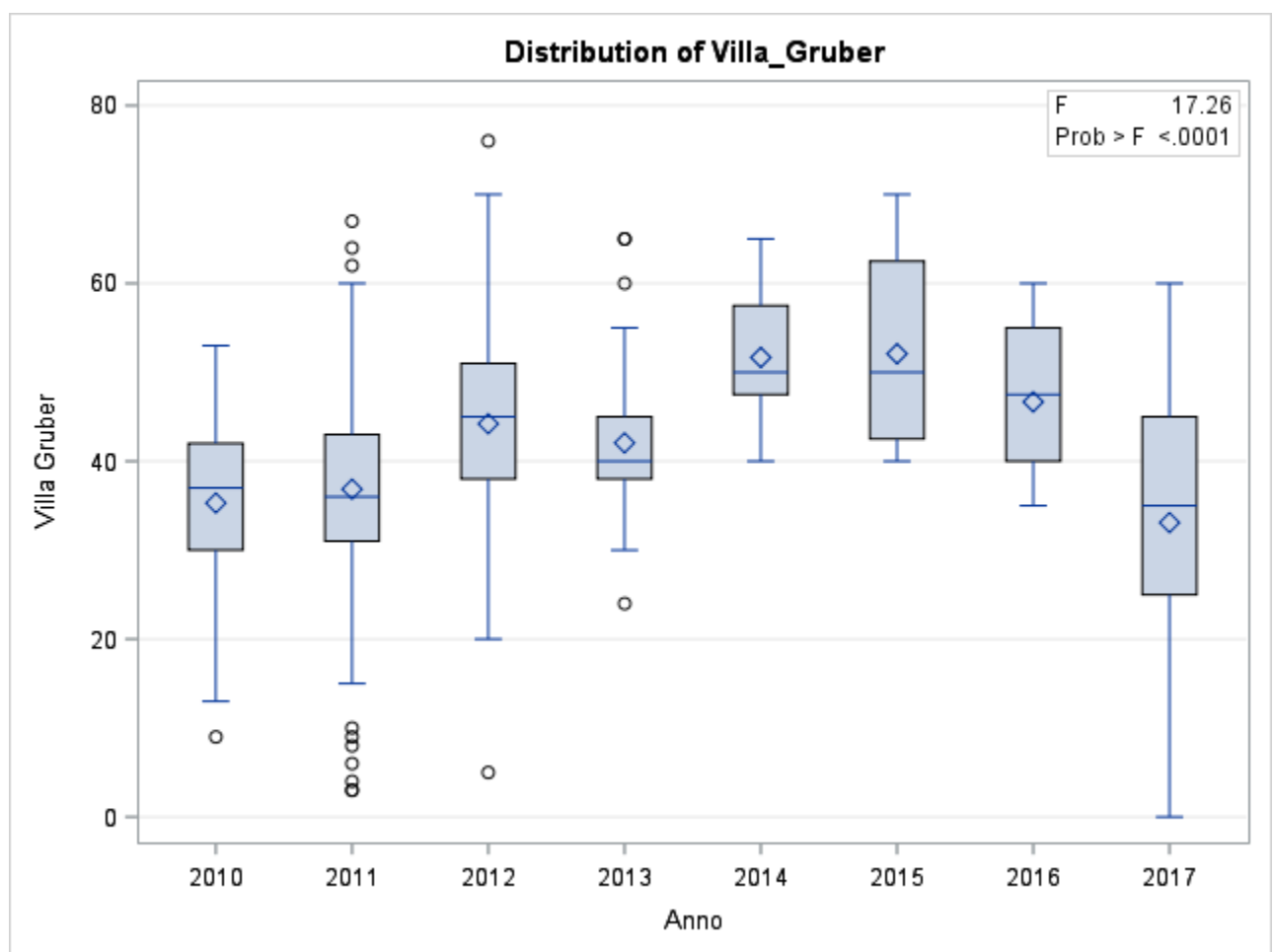
## Analysis of Variance

Dependent variable: Villa\_Gruber

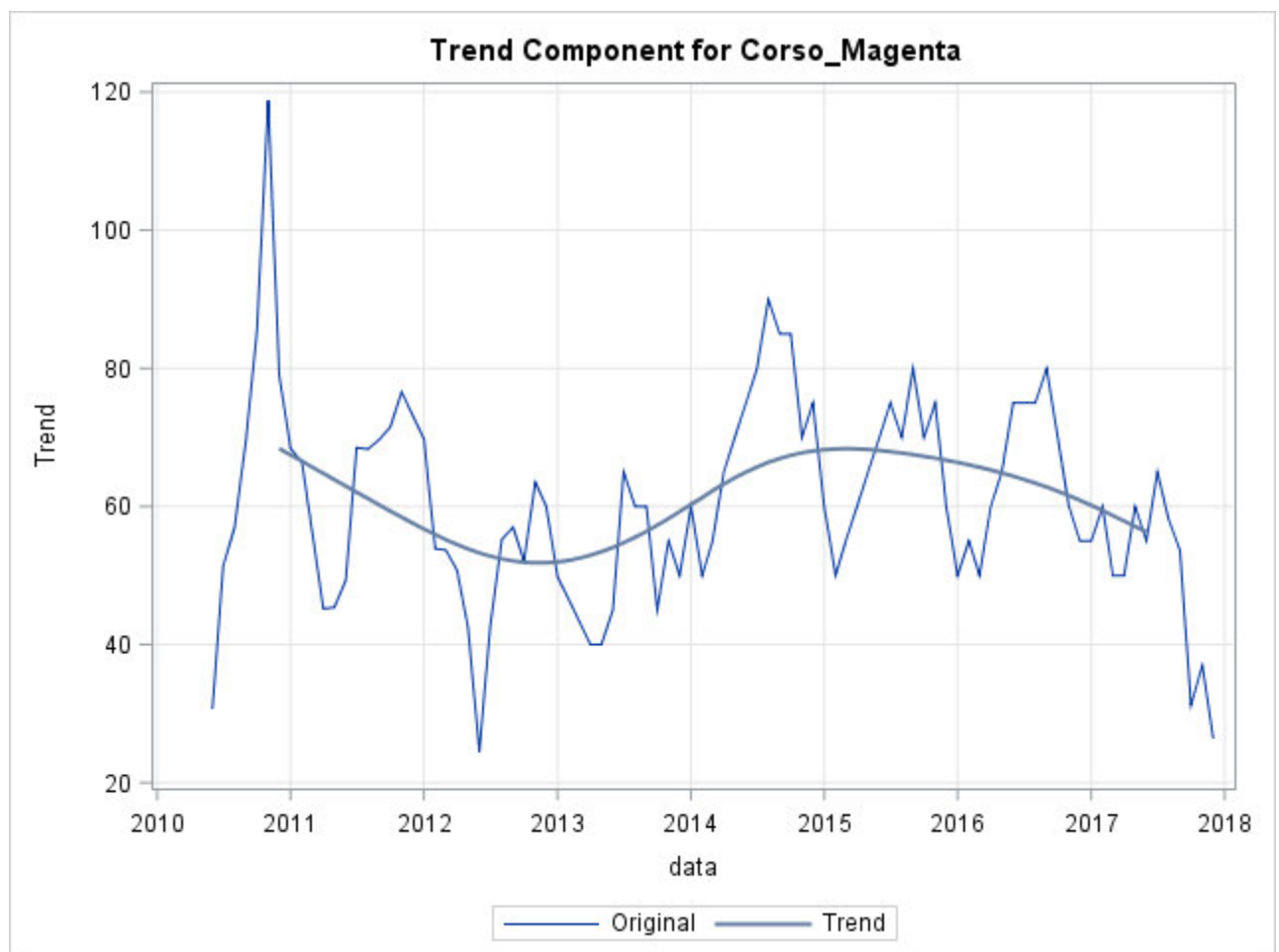
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 14141.43678    | 2020.20525  | 17.26   | <0.0001 |
| <b>Error</b>           | 593 | 69387.95423    | 117.01173   |         |         |
| <b>Corrected total</b> | 600 | 83529.39101    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Villa_Gruber |
|----------|-----------|----------|----------------------|
| 0.169299 | 27.27673  | 10.81720 | 39.65724             |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 14141.43678 | 2020.20525  | 17.26   | <0.0001 |



| Analysis variable: Corso_Magenta |        |         |        |         |      |
|----------------------------------|--------|---------|--------|---------|------|
| Year                             | N. obs | Minimum | Median | Maximum | Mean |
| 2010                             | 105    | 12.0    | 61.0   | 148.0   | 67.0 |
| 2011                             | 178    | 6.0     | 62.0   | 110.0   | 61.1 |
| 2012                             | 191    | 8.0     | 55.5   | 90.0    | 54.1 |
| 2013                             | 37     | 25.0    | 50.0   | 65.0    | 49.0 |
| 2014                             | 12     | 50.0    | 72.5   | 90.0    | 71.7 |
| 2015                             | 12     | 50.0    | 67.5   | 80.0    | 65.8 |
| 2016                             | 12     | 50.0    | 62.5   | 80.0    | 64.2 |
| 2017                             | 58     | 0.0     | 45.0   | 90.0    | 44.0 |



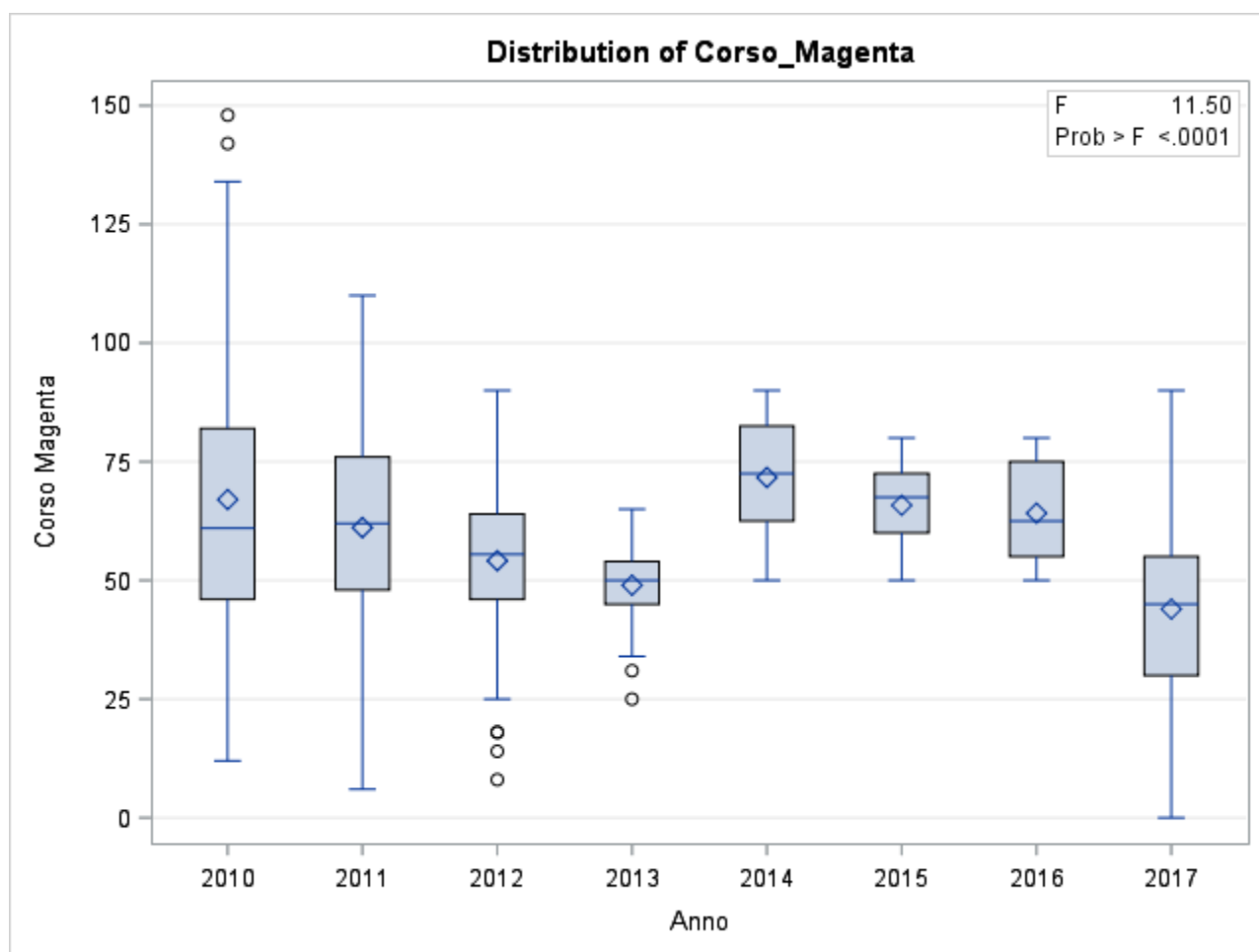
## Analysis of Variance

Dependent variable: Corso Magenta

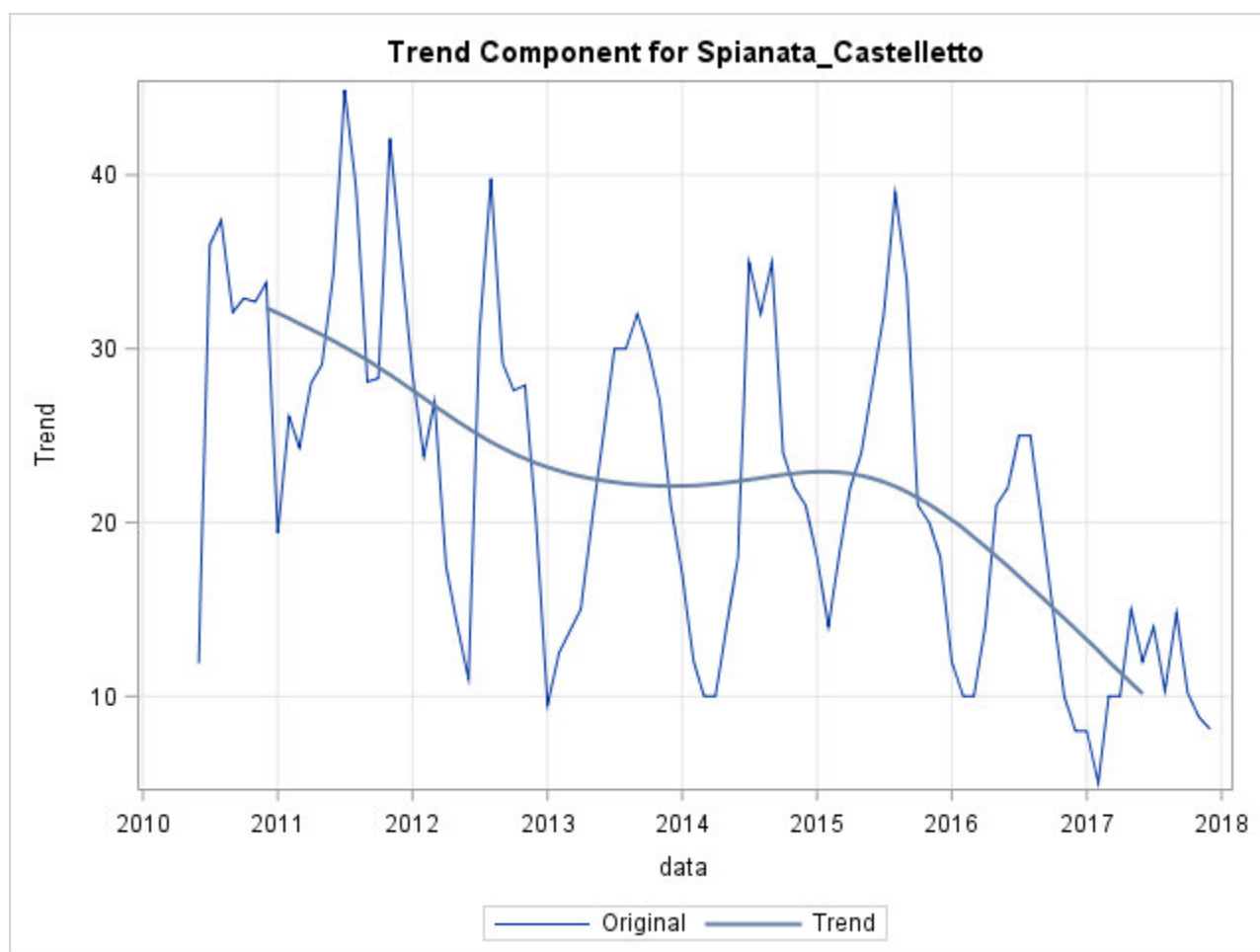
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 30514.2038     | 4359.1720   | 11.50   | <0.0001 |
| <b>Error</b>           | 591 | 223996.5107    | 379.0127    |         |         |
| <b>Corrected total</b> | 598 | 254510.7145    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Corso_Magenta |
|----------|-----------|----------|-----------------------|
| 0.119894 | 33.60173  | 19.46825 | 57.93823              |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 30514.20382 | 4359.17197  | 11.50   | <0.0001 |



| Spianata Castelletto |        |         |        |         |      |
|----------------------|--------|---------|--------|---------|------|
| Year                 | N. obs | Minimum | Median | Maximum | Mean |
| 2010                 | 105    | 0.0     | 34.0   | 100.0   | 31.0 |
| 2011                 | 178    | 0.0     | 31.0   | 82.0    | 30.5 |
| 2012                 | 191    | 0.0     | 27.0   | 52.0    | 26.0 |
| 2013                 | 37     | 2.0     | 12.0   | 32.0    | 14.5 |
| 2014                 | 12     | 10.0    | 19.5   | 35.0    | 20.8 |
| 2015                 | 12     | 14.0    | 21.5   | 39.0    | 24.0 |
| 2016                 | 12     | 8.0     | 14.5   | 25.0    | 16.0 |
| 2017                 | 58     | 0.0     | 10.0   | 26.0    | 10.9 |



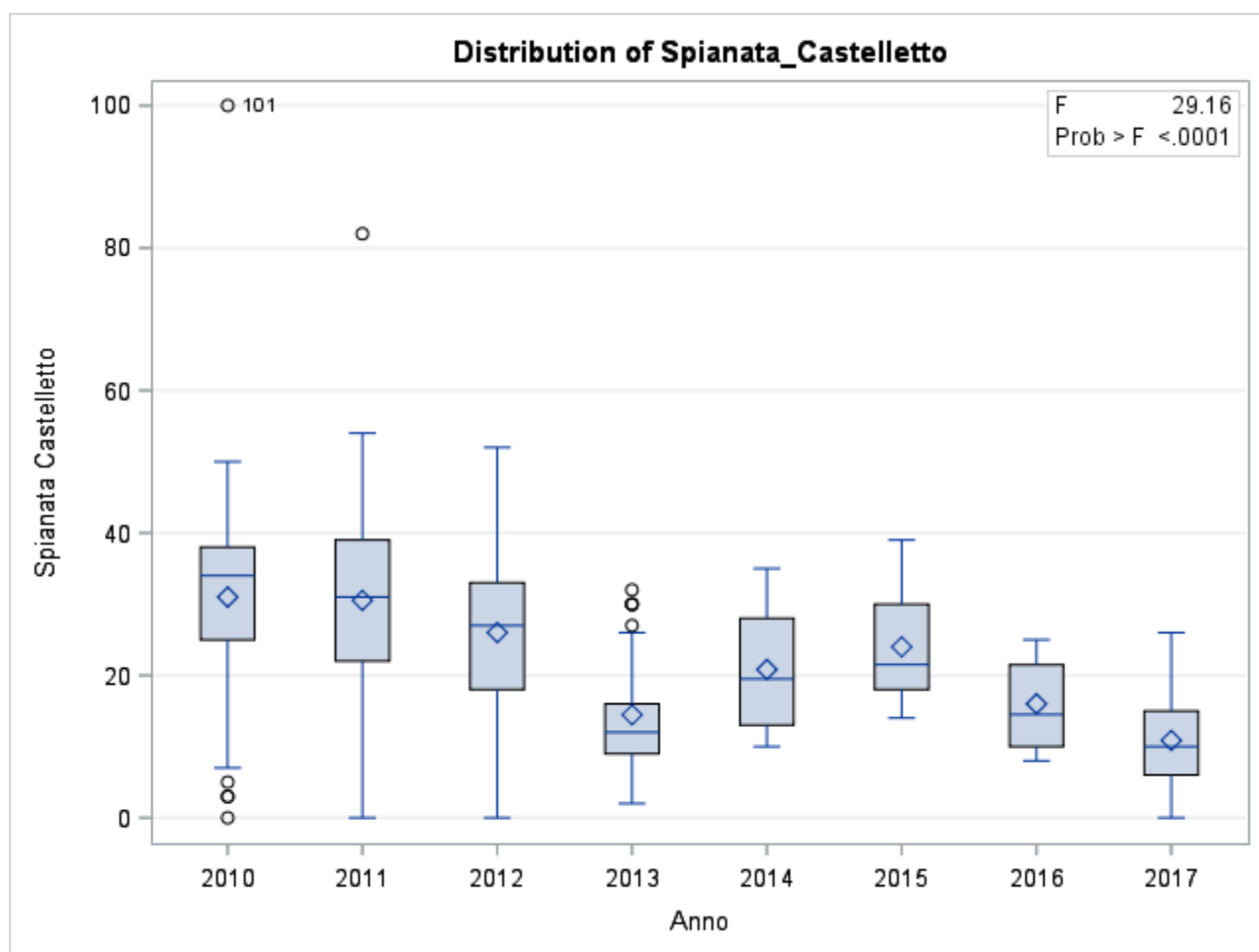
## Analysis of Variance

Dependent variable: Spianata\_Castelletto

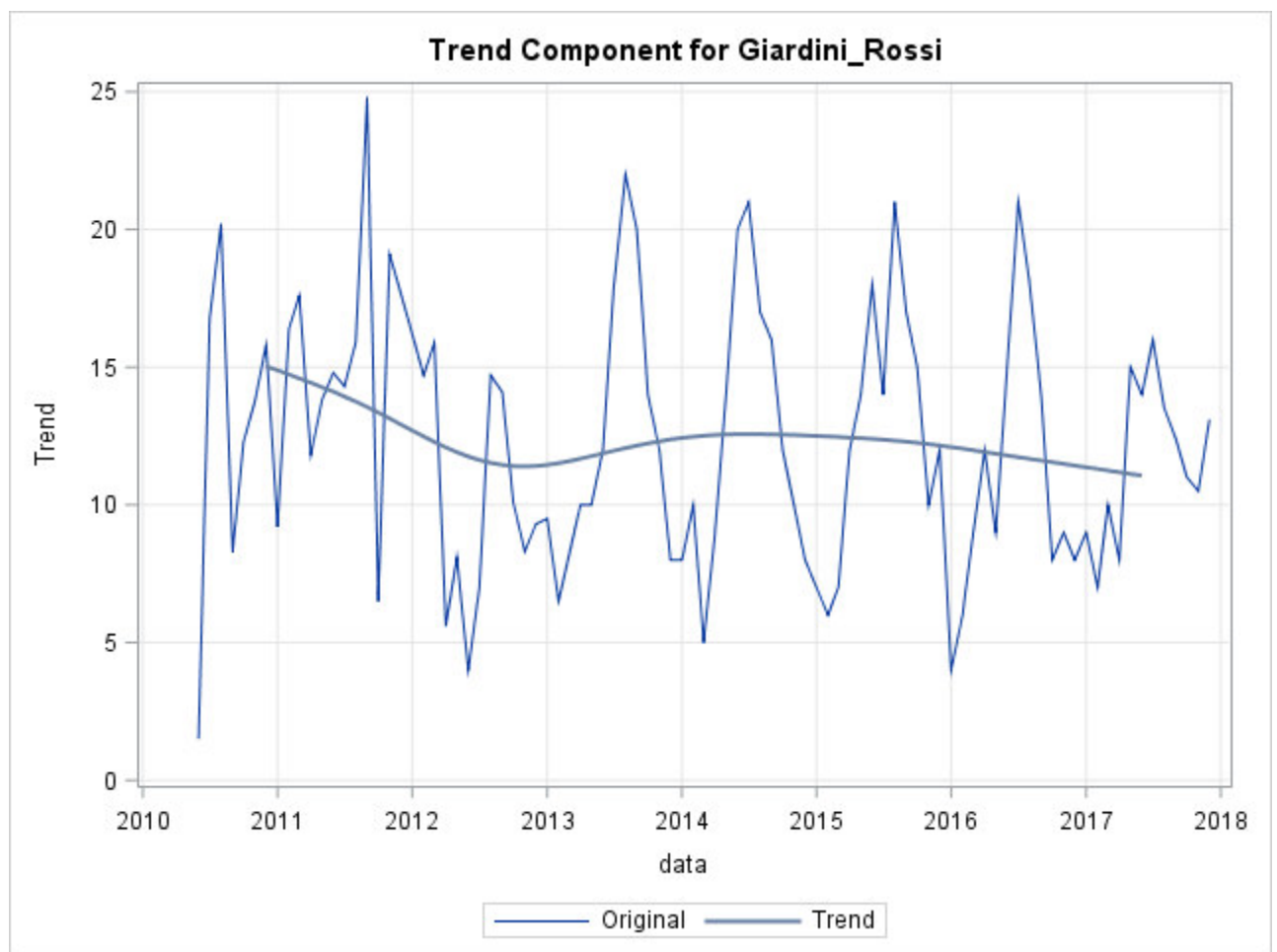
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 25275.56448    | 3610.79493  | 29.16   | <0.0001 |
| <b>Error</b>           | 590 | 73045.80676    | 123.80645   |         |         |
| <b>Corrected total</b> | 597 | 98321.37124    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Spianata_Castelletto |
|----------|-----------|----------|------------------------------|
| 0.257071 | 43.20680  | 11.12683 | 25.75251                     |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 25275.56448 | 3610.79493  | 29.16   | <0.0001 |



| Giardini_Rossi |        |         |        |         |      |
|----------------|--------|---------|--------|---------|------|
| Year           | N. obs | Minimum | Median | Maximum | Mean |
| 2010           | 105    | 0.0     | 13.0   | 38.0    | 12.6 |
| 2011           | 178    | 0.0     | 14.5   | 41.0    | 14.8 |
| 2012           | 191    | 0.0     | 10.0   | 32.0    | 11.0 |
| 2013           | 37     | 1.0     | 8.0    | 41.0    | 9.6  |
| 2014           | 12     | 5.0     | 11.0   | 21.0    | 12.5 |
| 2015           | 12     | 6.0     | 13.0   | 21.0    | 12.8 |
| 2016           | 12     | 4.0     | 9.0    | 21.0    | 11.1 |
| 2017           | 58     | 0.0     | 13.0   | 25.0    | 12.1 |



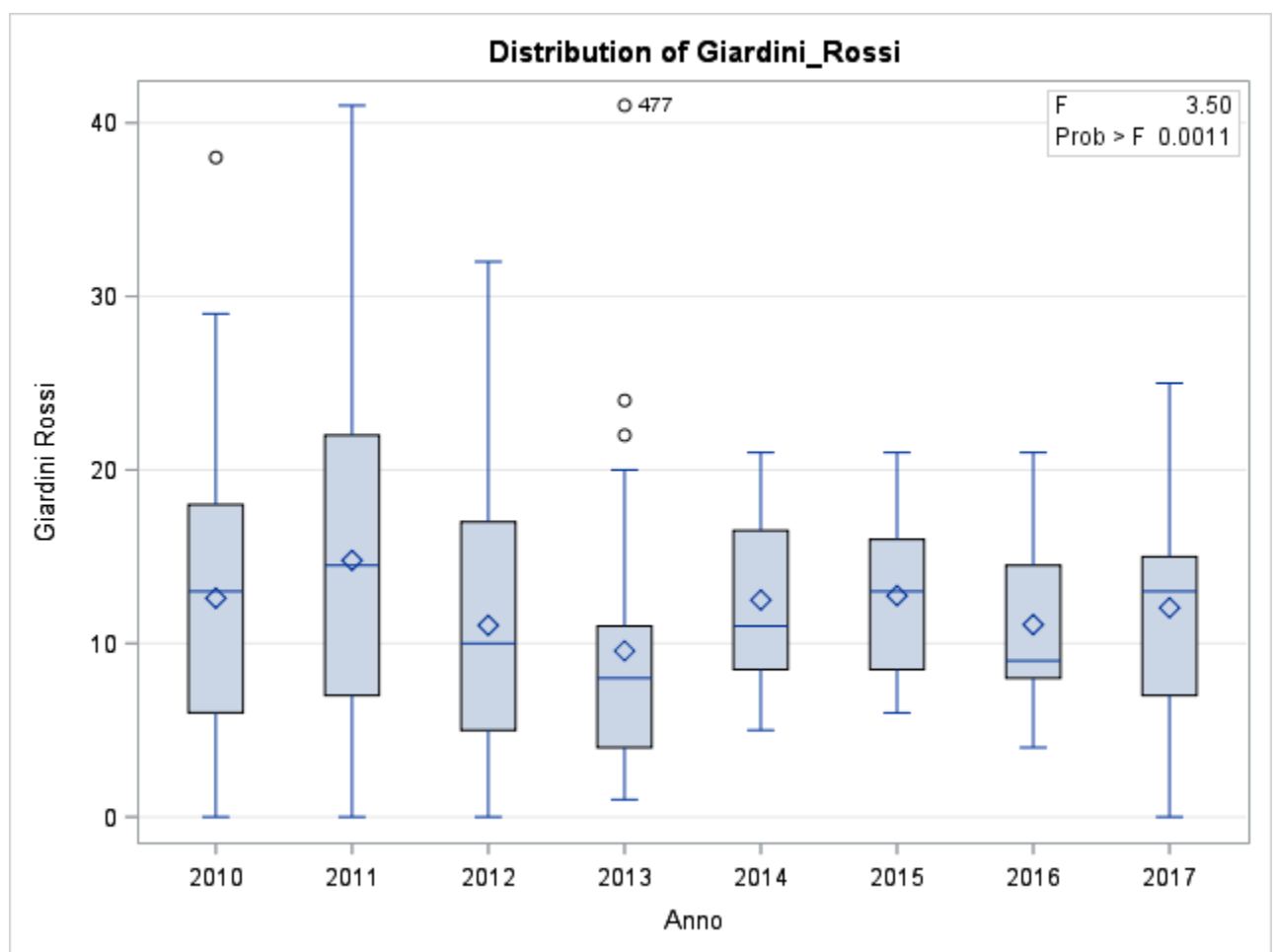
## Analysis of Variance

Dependent variable: Giardini\_Rossi

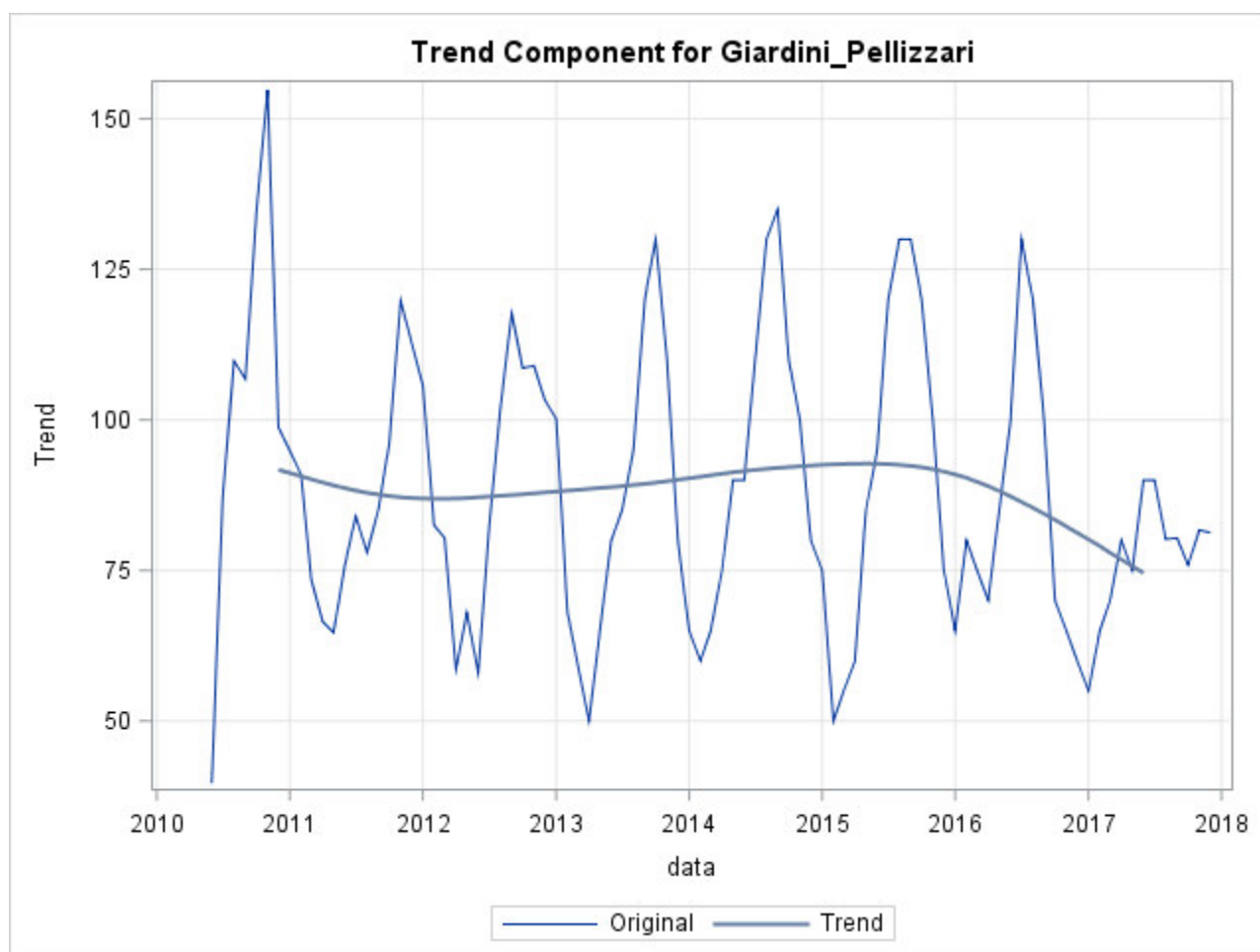
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F |
|------------------------|-----|----------------|-------------|---------|--------|
| <b>Model</b>           | 7   | 1685.37154     | 240.76736   | 3.50    | 0.0011 |
| <b>Error</b>           | 592 | 40732.52179    | 68.80494    |         |        |
| <b>Corrected total</b> | 599 | 42417.89333    |             |         |        |

| R-Square | Coeff Var | MSE Root | Mean of Giardini_Rossi |
|----------|-----------|----------|------------------------|
| 0.039733 | 66.42985  | 8.294874 | 12.48667               |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F |
|-------------|----|-------------|-------------|---------|--------|
| <b>Year</b> | 7  | 1685.371541 | 240.767363  | 3.50    | 0.0011 |



| Giardini Pellizzari |        |         |        |         |       |
|---------------------|--------|---------|--------|---------|-------|
| Year                | N. obs | Minimum | Median | Maximum | Mean  |
| 2010                | 105    | 9.0     | 107.5  | 175.0   | 102.9 |
| 2011                | 178    | 12.0    | 82.0   | 140.0   | 82.2  |
| 2012                | 191    | 0.0     | 95.0   | 135.0   | 93.3  |
| 2013                | 37     | 40.0    | 91.0   | 130.0   | 86.2  |
| 2014                | 12     | 60.0    | 90.0   | 135.0   | 92.5  |
| 2015                | 12     | 50.0    | 90.0   | 130.0   | 91.3  |
| 2016                | 12     | 60.0    | 77.5   | 130.0   | 85.0  |
| 2017                | 58     | 30.0    | 80.0   | 110.0   | 79.0  |



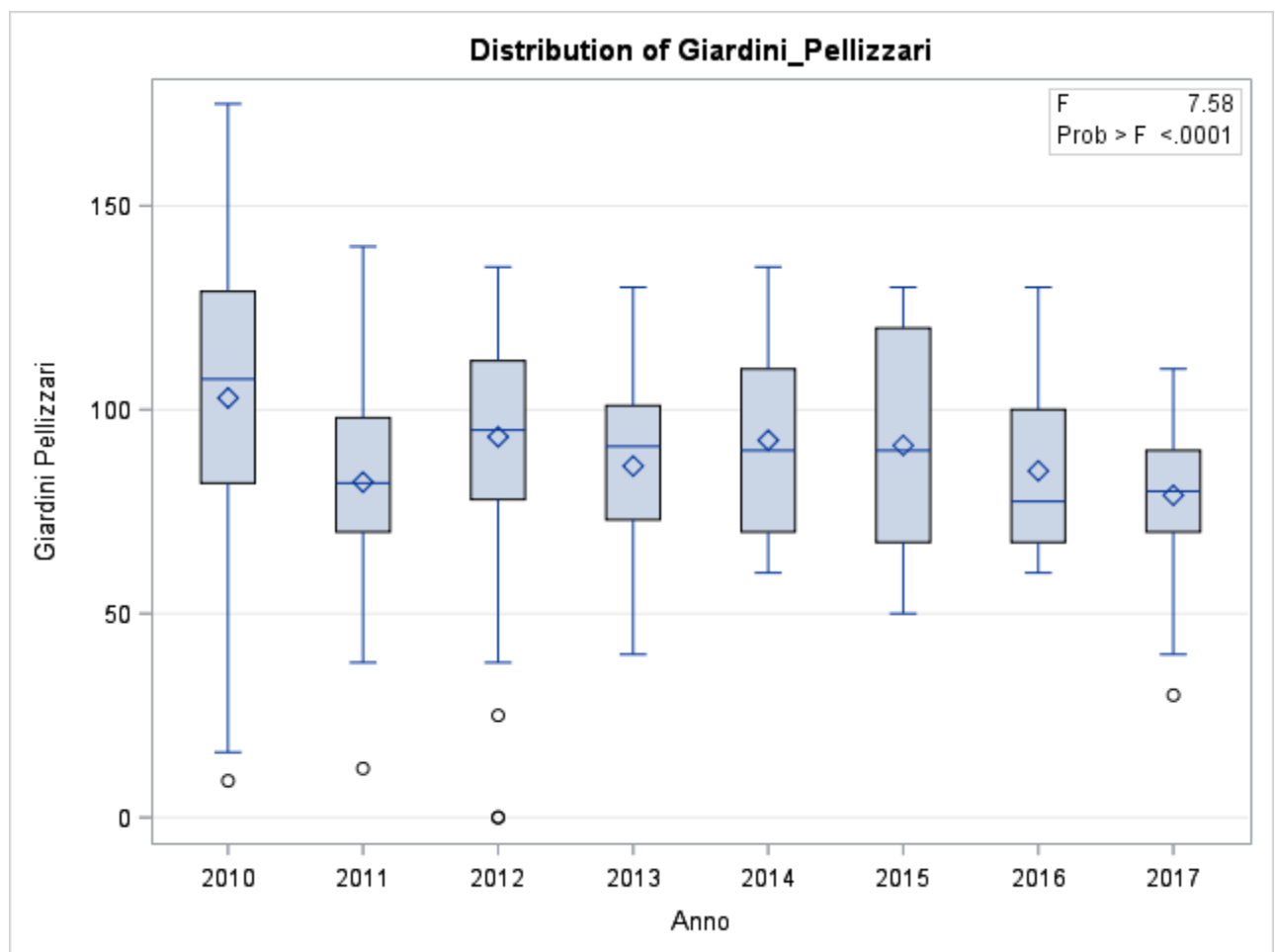
## Analysis of Variance

Dependent variable: Giardini\_Pellizzari

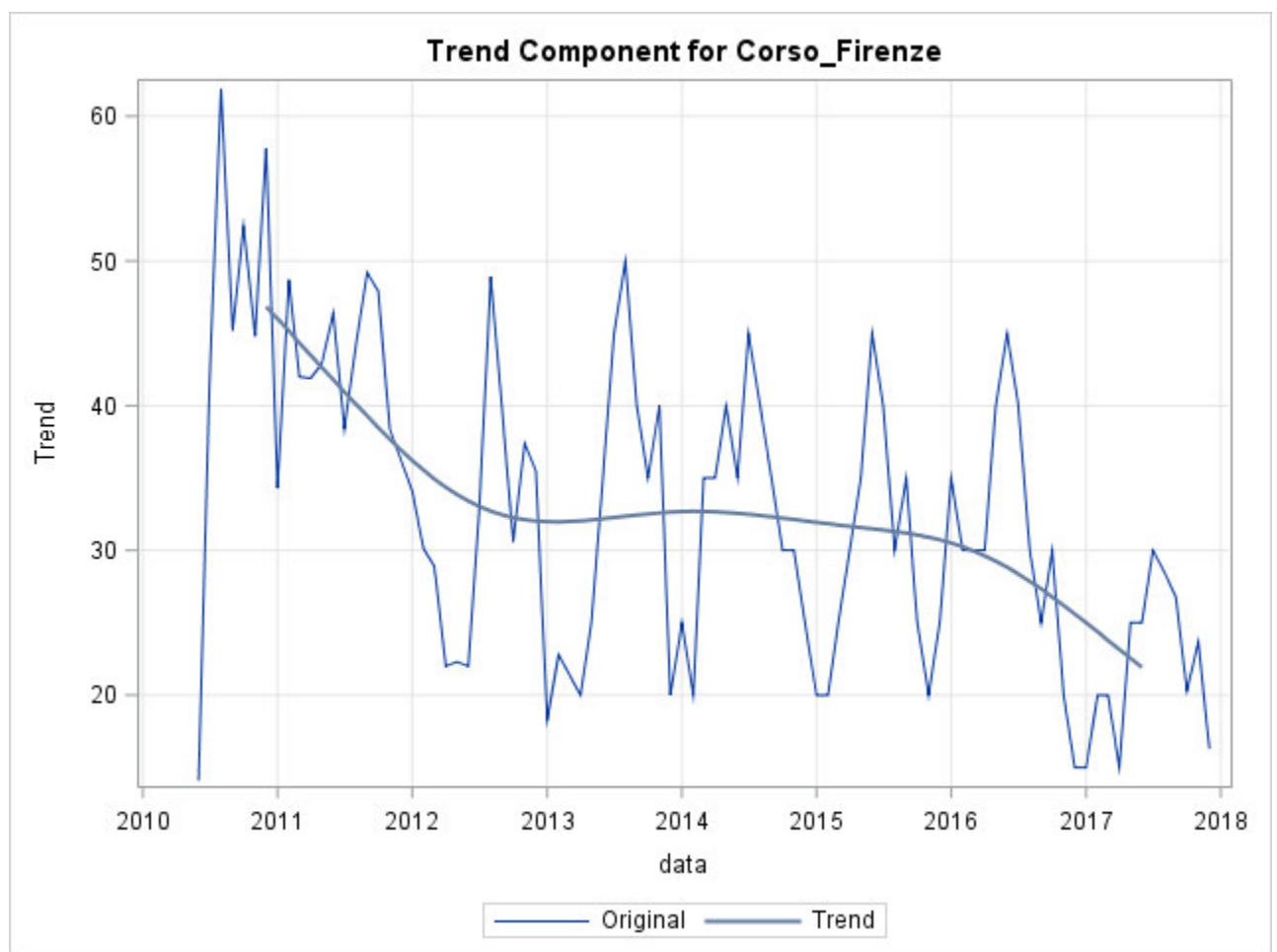
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 37893.3355     | 5413.3336   | 7.58    | <0.0001 |
| <b>Error</b>           | 593 | 423693.3267    | 714.4913    |         |         |
| <b>Corrected total</b> | 600 | 461586.6622    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Giardini_Pellizzari |
|----------|-----------|----------|-----------------------------|
| 0.082094 | 29.80577  | 26.72997 | 89.68053                    |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 37893.33552 | 5413.33365  | 7.58    | <0.0001 |



| Corso_Firenze |        |         |        |         |      |
|---------------|--------|---------|--------|---------|------|
| Year          | N. obs | Minimum | Median | Maximum | Mean |
| 2010          | 105    | 0.0     | 46.0   | 137.0   | 44.4 |
| 2011          | 178    | 0.0     | 43.0   | 70.0    | 43.0 |
| 2012          | 191    | 2.0     | 34.0   | 67.0    | 33.4 |
| 2013          | 37     | 8.0     | 21.0   | 50.0    | 23.8 |
| 2014          | 12     | 20.0    | 35.0   | 45.0    | 32.9 |
| 2015          | 12     | 20.0    | 27.5   | 45.0    | 29.2 |
| 2016          | 12     | 15.0    | 30.0   | 45.0    | 30.8 |



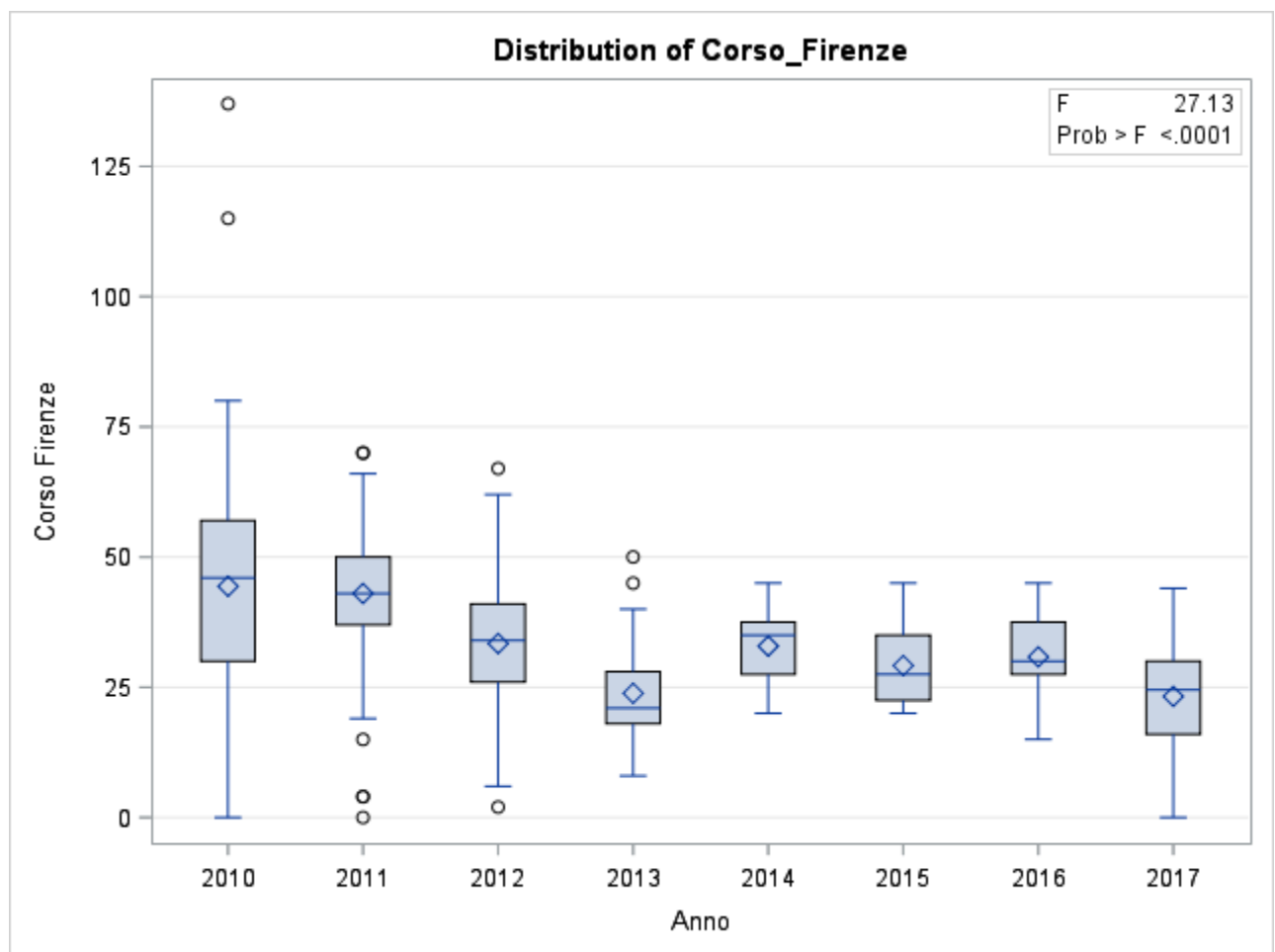
## Analysis of Variance

Dependent variable: Corso Firenze

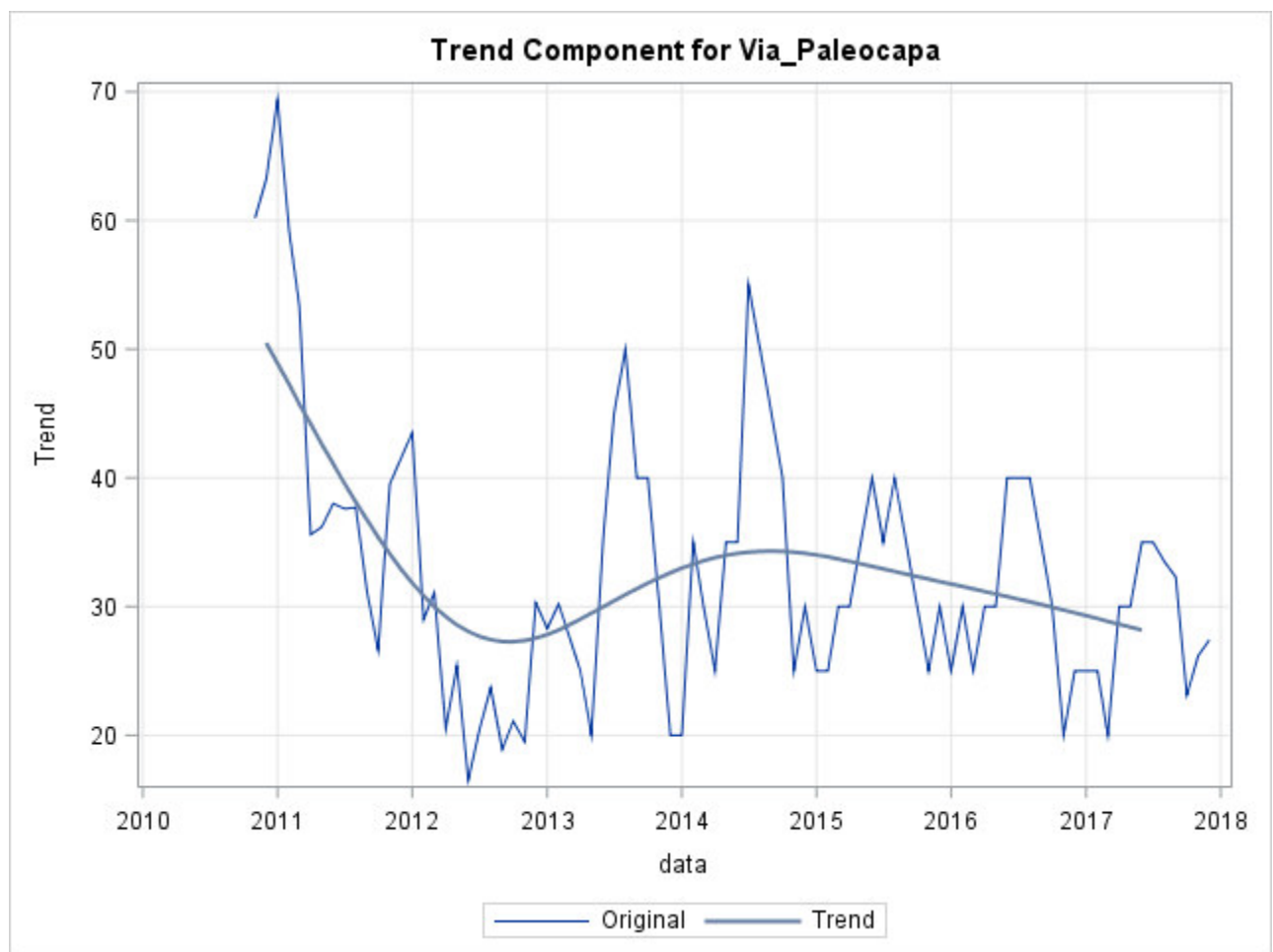
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 33126.7788     | 4732.3970   | 27.13   | <0.0001 |
| <b>Error</b>           | 595 | 103786.3854    | 174.4309    |         |         |
| <b>Corrected total</b> | 602 | 136913.1642    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Corso_Firenze |
|----------|-----------|----------|-----------------------|
| 0.241955 | 36.26080  | 13.20723 | 36.42289              |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F |
|-------------|----|-------------|-------------|---------|--------|
| <b>Year</b> | 7  | 33126.77881 | 4732.39697  | 27.13   | <.0001 |



| Via_Paleocapa |        |         |        |         |      |
|---------------|--------|---------|--------|---------|------|
| Year          | N. obs | Minimum | Median | Maximum | Mean |
| 2010          | 105    | 16.0    | 58.5   | 90.0    | 61.2 |
| 2011          | 178    | 1.0     | 43.0   | 94.0    | 42.3 |
| 2012          | 191    | 5.0     | 24.0   | 56.0    | 25.6 |
| 2013          | 37     | 10.0    | 31.0   | 50.0    | 30.3 |
| 2014          | 12     | 20.0    | 35.0   | 55.0    | 35.4 |
| 2015          | 12     | 25.0    | 30.0   | 40.0    | 31.7 |
| 2016          | 12     | 20.0    | 30.0   | 40.0    | 30.8 |
| 2017          | 58     | 3.0     | 25.5   | 45.0    | 28.7 |



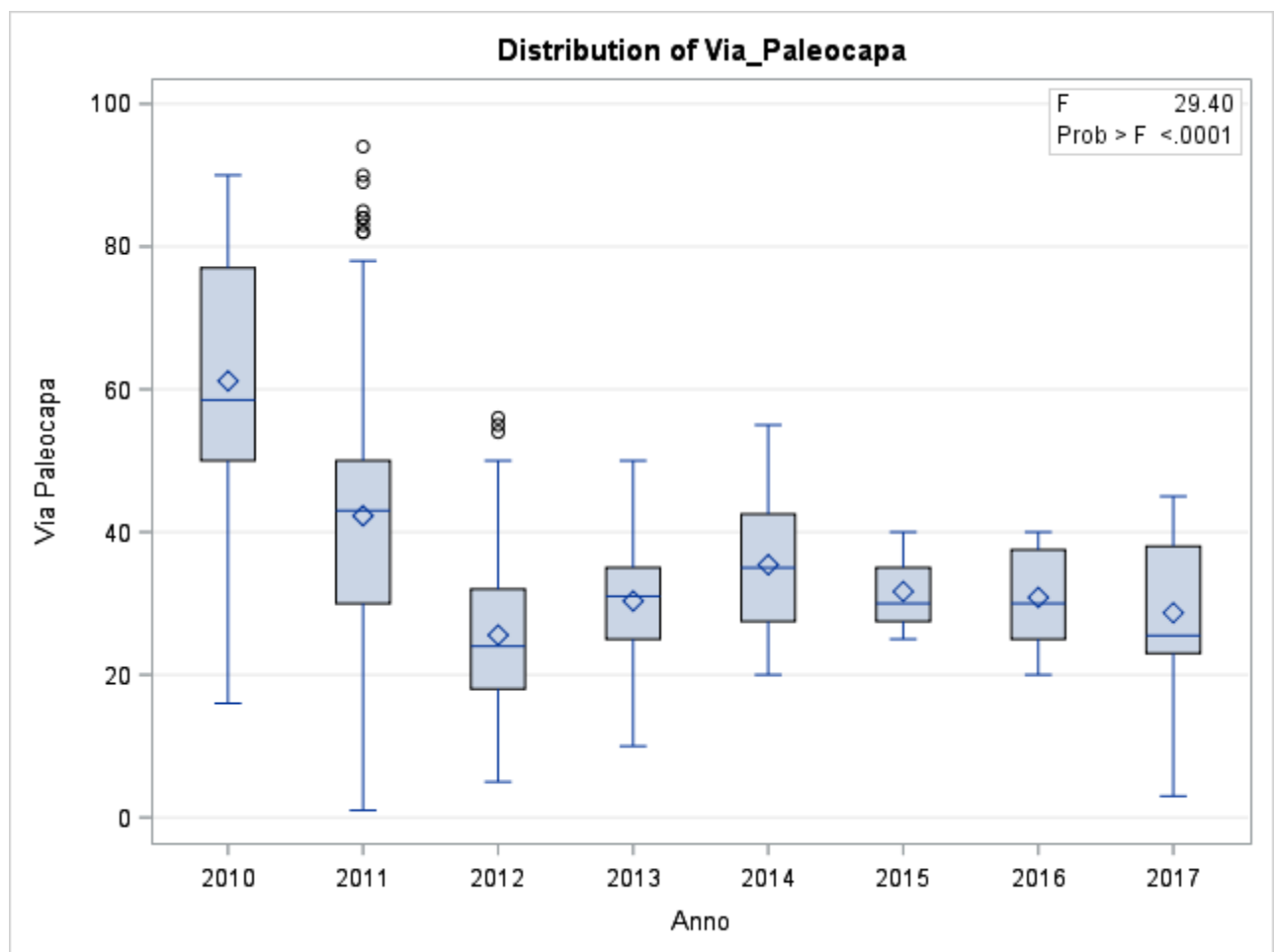
## Analysis of Variance

Dependent variable: Via Paleocapa

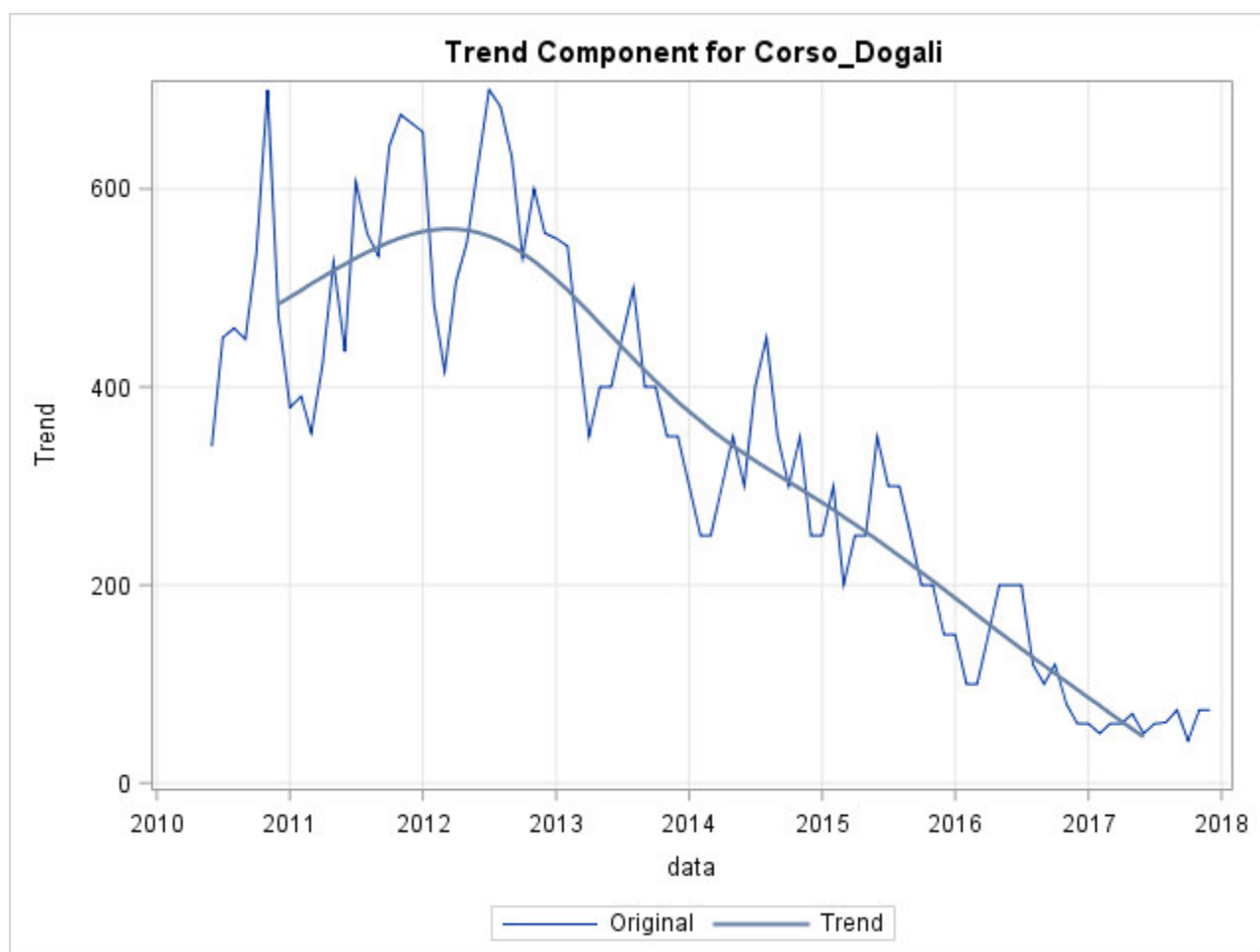
| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 41248.8992     | 5892.6999   | 29.40   | <0.0001 |
| <b>Error</b>           | 508 | 101814.3334    | 200.4219    |         |         |
| <b>Corrected total</b> | 515 | 143063.2326    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Via_Paleocapa |
|----------|-----------|----------|-----------------------|
| 0.288326 | 41.93957  | 14.15704 | 33.75581              |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F |
|-------------|----|-------------|-------------|---------|--------|
| <b>Year</b> | 7  | 41248.89916 | 5892.69988  | 29.40   | <.0001 |



| Corso_Dogali |        |         |        |         |       |
|--------------|--------|---------|--------|---------|-------|
| Year         | N. obs | Minimum | Median | Maximum | Mean  |
| 2010         | 105    | 75.0    | 500.0  | 800.0   | 478.3 |
| 2011         | 178    | 0.0     | 500.0  | 750.0   | 492.4 |
| 2012         | 191    | 130.0   | 600.0  | 850.0   | 578.0 |
| 2013         | 37     | 350.0   | 500.0  | 600.0   | 510.8 |
| 2014         | 12     | 250.0   | 300.0  | 450.0   | 320.8 |
| 2015         | 12     | 150.0   | 250.0  | 350.0   | 250.0 |
| 2016         | 12     | 60.0    | 120.0  | 200.0   | 131.7 |
| 2017         | 58     | 0.0     | 68.0   | 110.0   | 62.9  |



## Analysis of Variance

Dependent variable: Corso\_Dogali

| Source                 | DF  | Sum of squares | Mean Square | F Value | Pr > F  |
|------------------------|-----|----------------|-------------|---------|---------|
| <b>Model</b>           | 7   | 14002088.37    | 2000298.34  | 112.45  | <0.0001 |
| <b>Error</b>           | 594 | 10565838.43    | 17787.61    |         |         |
| <b>Corrected total</b> | 601 | 24567926.80    |             |         |         |

| R-Square | Coeff Var | MSE Root | Mean of Corso_Dogali |
|----------|-----------|----------|----------------------|
| 0.569934 | 28.86686  | 133.3702 | 462.0183             |

| Source      | DF | SS Anova    | Mean Square | F Value | Pr > F  |
|-------------|----|-------------|-------------|---------|---------|
| <b>Year</b> | 7  | 14002088.37 | 2000298.34  | 112.45  | <0.0001 |

