

This report is for evaluation purposes only.
There are 3 days remaining in your free trial (Expires on 31/12/2025).

Analysis of Variance Report

Dataset C:\Users\crist\Documents\diseño experimental 2\cuakcuakl.NCSS
Response Rendimiento_kg

Expected Mean Squares

| Model Term | DF | Term Fixed? | Denominator Term | Expected Mean Square |
|-----------------|----|-------------|------------------|----------------------|
| A: Variedad | 1 | Yes | S(ABC) | S+bcsA |
| B: Fertilizante | 2 | Yes | S(ABC) | S+acsB |
| AB | 2 | Yes | S(ABC) | S+csAB |
| C: Riego | 1 | Yes | S(ABC) | S+absC |
| AC | 1 | Yes | S(ABC) | S+bsAC |
| BC | 2 | Yes | S(ABC) | S+asBC |
| ABC | 2 | Yes | S(ABC) | S+sABC |
| S(ABC) | 48 | No | | S |

Note: Expected Mean Squares are for the balanced cell-frequency case.

Analysis of Variance Table

| Model Term | DF | Sum of Squares | Mean Square | F-Ratio | P-Value |
|------------------|----|----------------|-------------|---------|----------|
| A: Variedad | 1 | 0.006657067 | 0.006657067 | 0.2758 | 0.60187 |
| B: Fertilizante | 2 | 2.282691 | 1.141345 | 47.2899 | 0.00000* |
| AB | 2 | 0.3918 | 0.1959 | 8.1168 | 0.00092* |
| C: Riego | 1 | 2.096644 | 2.096644 | 86.8712 | 0.00000* |
| AC | 1 | 0.03911707 | 0.03911707 | 1.6208 | 0.20912 |
| BC | 2 | 0.1092854 | 0.05464272 | 2.2640 | 0.11492 |
| ABC | 2 | 0.03725423 | 0.01862712 | 0.7718 | 0.46784 |
| S | 48 | 1.158484 | 0.02413509 | | |
| Total (Adjusted) | 59 | 6.121933 | | | |
| Total | 60 | | | | |

* Term significant at $\alpha = 0.05$

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Means and Standard Errors

| Term | Count | Mean | Standard Error |
|-----------------------------------|-------|----------|----------------|
| All | 60 | 1.859867 | |
| A: Variedad | | | |
| A | 30 | 1.849333 | 0.02836376 |
| B | 30 | 1.8704 | 0.02836376 |
| B: Fertilizante | | | |
| Alto | 20 | 2.12775 | 0.03473837 |
| Bajo | 20 | 1.7829 | 0.03473837 |
| Ninguno | 20 | 1.66895 | 0.03473837 |
| C: Riego | | | |
| Alto | 30 | 2.0468 | 0.02836376 |
| Bajo | 30 | 1.672933 | 0.02836376 |
| AB: Variedad, Fertilizante | | | |
| A, Alto | 10 | 2.2276 | 0.04912748 |
| A, Bajo | 10 | 1.7428 | 0.04912748 |
| A, Ninguno | 10 | 1.5776 | 0.04912748 |
| B, Alto | 10 | 2.0279 | 0.04912748 |
| B, Bajo | 10 | 1.823 | 0.04912748 |
| B, Ninguno | 10 | 1.7603 | 0.04912748 |
| AC: Variedad, Riego | | | |
| A, Alto | 15 | 2.010733 | 0.04011242 |
| A, Bajo | 15 | 1.687933 | 0.04011242 |
| B, Alto | 15 | 2.082867 | 0.04011242 |
| B, Bajo | 15 | 1.657933 | 0.04011242 |
| BC: Fertilizante, Riego | | | |
| Alto, Alto | 10 | 2.3633 | 0.04912748 |
| Alto, Bajo | 10 | 1.8922 | 0.04912748 |
| Bajo, Alto | 10 | 1.9765 | 0.04912748 |
| Bajo, Bajo | 10 | 1.5893 | 0.04912748 |
| Ninguno, Alto | 10 | 1.8006 | 0.04912748 |
| Ninguno, Bajo | 10 | 1.5373 | 0.04912748 |

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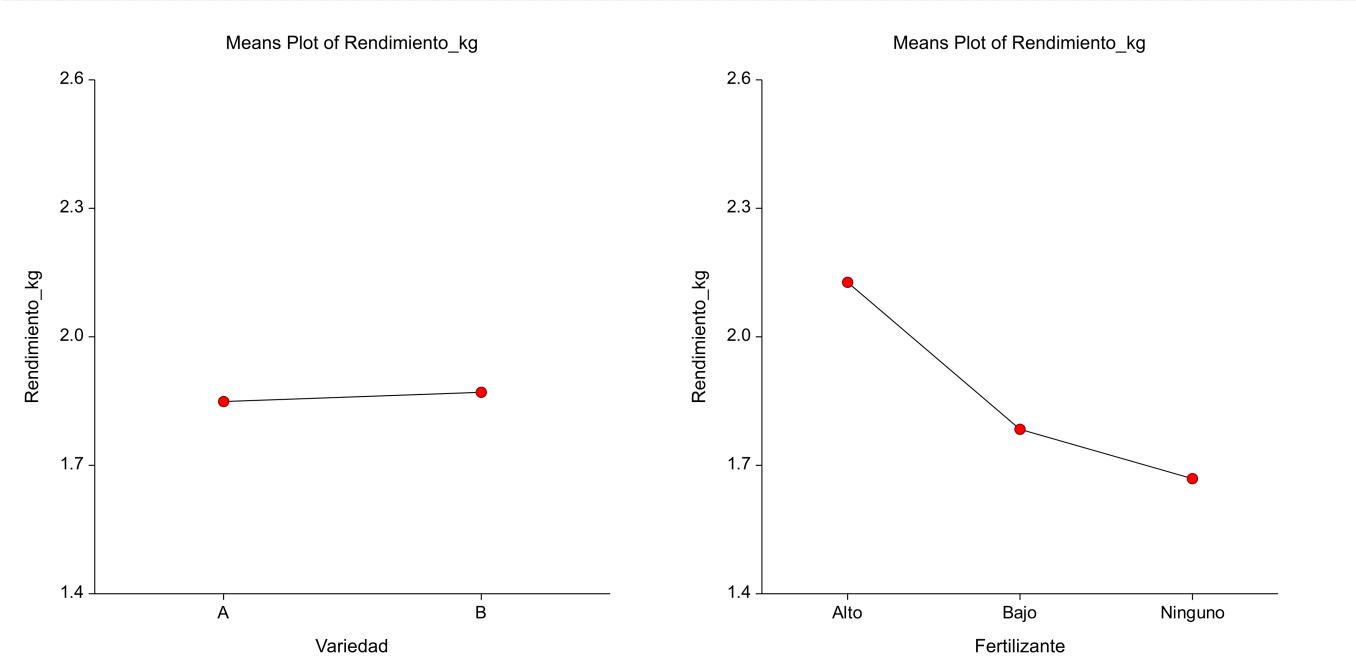
Analysis of Variance Report

DatasetC:\Users\crist\Documents\diseño experimental 2\cuakcuakl.NCSS
ResponseRendimiento_kg

Means and Standard Errors (Continued)

| Term | Count | Mean | Standard Error |
|------------------------------------|-------|--------|----------------|
| ABC: Variedad, Fertilizante, Riego | | | |
| A, Alto, Alto | 5 | 2.4436 | 0.06947675 |
| A, Alto, Bajo | 5 | 2.0116 | 0.06947675 |
| A, Bajo, Alto | 5 | 1.8778 | 0.06947675 |
| A, Bajo, Bajo | 5 | 1.6078 | 0.06947675 |
| A, Ninguno, Alto | 5 | 1.7108 | 0.06947675 |
| A, Ninguno, Bajo | 5 | 1.4444 | 0.06947675 |
| B, Alto, Alto | 5 | 2.283 | 0.06947675 |
| B, Alto, Bajo | 5 | 1.7728 | 0.06947675 |
| B, Bajo, Alto | 5 | 2.0752 | 0.06947675 |
| B, Bajo, Bajo | 5 | 1.5708 | 0.06947675 |
| B, Ninguno, Alto | 5 | 1.8904 | 0.06947675 |
| B, Ninguno, Bajo | 5 | 1.6302 | 0.06947675 |

Means Plots

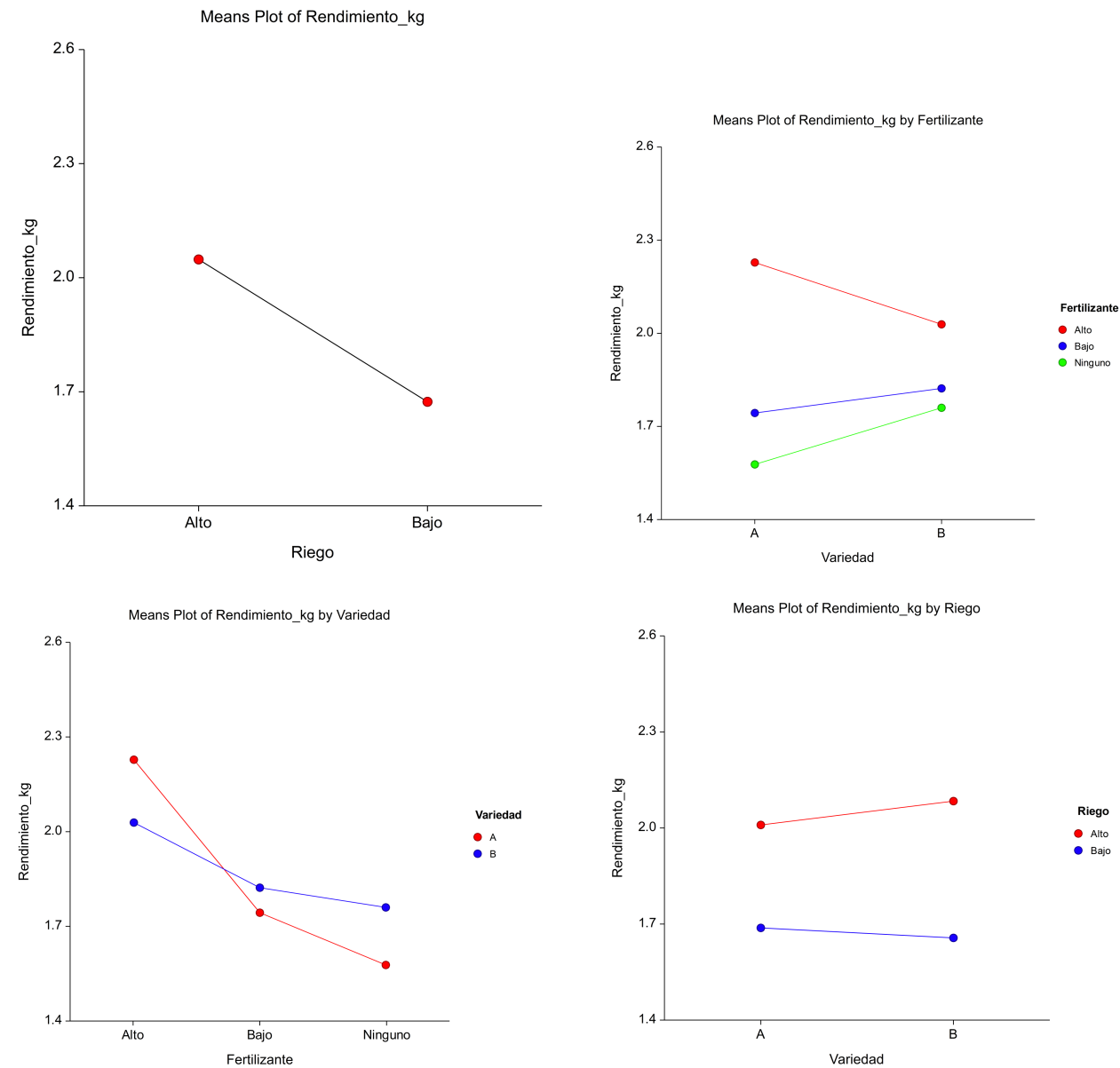


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ResponseRendimiento_kg

Means Plots (Continued)

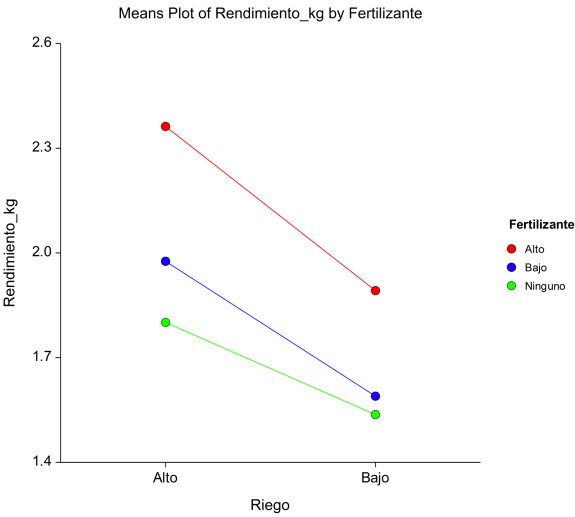
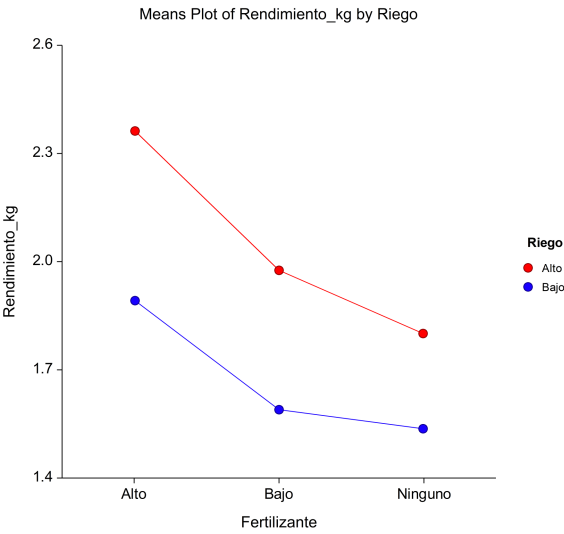
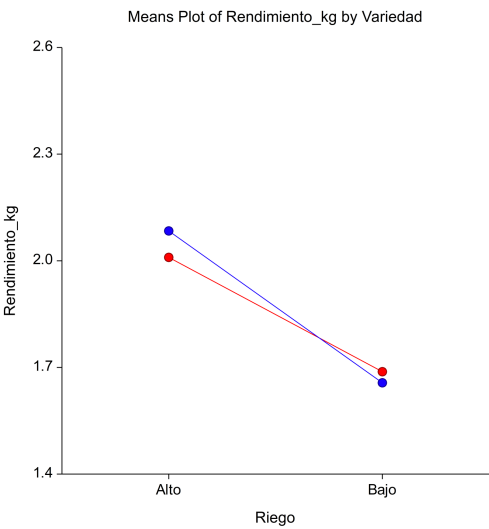


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Means Plots (Continued)



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Response Rendimiento_kg

Duncan's Multiple Comparison Test

Comparison Term: A: Variedad

| Group | Count | Mean | Different From Groups |
|-------|-------|----------|-----------------------|
| A | 30 | 1.849333 | |
| B | 30 | 1.8704 | |

$\alpha = 0.05$; Error Term = S(ABC); DF = 48; MSE = 0.02413509

Duncan's Multiple Comparison Test

Comparison Term: B: Fertilizante

| Group | Count | Mean | Different From Groups |
|---------|-------|---------|-----------------------|
| Alto | 20 | 2.12775 | Bajo, Ninguno |
| Bajo | 20 | 1.7829 | Alto, Ninguno |
| Ninguno | 20 | 1.66895 | Alto, Bajo |

$\alpha = 0.05$; Error Term = S(ABC); DF = 48; MSE = 0.02413509

Duncan's Multiple Comparison Test

Comparison Term: C: Riego

| Group | Count | Mean | Different From Groups |
|-------|-------|----------|-----------------------|
| Alto | 30 | 2.0468 | Bajo |
| Bajo | 30 | 1.672933 | Alto |

$\alpha = 0.05$; Error Term = S(ABC); DF = 48; MSE = 0.02413509

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Analysis of Variance Report

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Procedure Input Settings

Autosaved Settings File

C:\Users\crist\Documents\NCSS 2024\Procedure Settings\Autosave\General Linear Models (GLM) -
 Autosaved 2025_12_29-16_18_30.t2

Variables Tab

-- Response Variables -----

Response Variable(s): Rendimiento_kg

-- Covariate Specification -----

Covariate Variable(s): <Empty>

-- Factor Specification -----

| | |
|---------------------|--------------|
| Factor Variable 1: | Variedad |
| Type: | Fixed |
| Comparisons: | None |
| Factor Variable 2: | Fertilizante |
| Type: | Fixed |
| Comparisons: | None |
| Factor Variable 3: | Riego |
| Type: | Fixed |
| Comparisons: | None |
| Factor Variable 4: | <Empty> |
| Factor Variable 5: | <Empty> |
| Factor Variable 6: | <Empty> |
| Factor Variable 7: | <Empty> |
| Factor Variable 8: | <Empty> |
| Factor Variable 9: | <Empty> |
| Factor Variable 10: | <Empty> |

-- Model Specification -----

| | |
|---|--------------------------------|
| Which Model Terms: | Full Model |
| Custom Model: | A + B + C + AB + AC + BC + ABC |
| Write model in "Custom Model" field. Do not process data. | Unchecked |

Reports Tab

-- Select Reports -----

| | |
|----------------------------|---------|
| Expected Means Squares | Checked |
| Analysis of Variance Table | Checked |
| Means and Effects | Checked |

-- Alpha and Power -----

| | |
|---------------|-----------|
| Tests Alpha: | 0.05 |
| Compute Power | Unchecked |

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Procedure Input Settings (Continued)

Reports Tab (Continued)

| | |
|---|-----------|
| -- Multiple Comparison Tests (For Fixed Factors Only) ----- | |
| Bonferroni Test (All Pairs) | Unchecked |
| Bonferroni Test (vs. Control) | Unchecked |
| Duncan's Test | Checked |
| Dunnett's Two-Sided Test vs. Control | Unchecked |
| Dunnett's Lower One-Sided Test vs. Control | Unchecked |
| Dunnett's Upper One-Sided Test vs. Control | Unchecked |
| Dunnett's Confidence Intervals | Unchecked |
| Fisher's LSD Test | Unchecked |
| Hsu's Multiple Comparisons with the Best | Unchecked |
| Newman-Keuls Test | Unchecked |
| Scheffe's Test | Unchecked |
| Tukey-Kramer Test | Unchecked |
| Tukey-Kramer Confidence Intervals and P-Values | Unchecked |
| Tests for Two-Factor Interactions | Unchecked |
| .. Multiple Comparisons Alpha and Notes | |
| MC Alpha: | 0.05 |
| Show Notes | Unchecked |

Report Options Tab

| | |
|------------------------------|----------------|
| -- Decimal Places ----- | |
| Means and C.I. Limits: | Auto (Up to 7) |
| Error Estimates and Effects: | Auto (Up to 7) |
| P-Values and Power: | 5 |
| Test Statistics: | 4 |

Plots Tab

| | |
|-----------------------|---------|
| -- Select Plots ----- | |
| Means Plot(s) | Checked |
| Y-Axis Scaling: | Uniform |