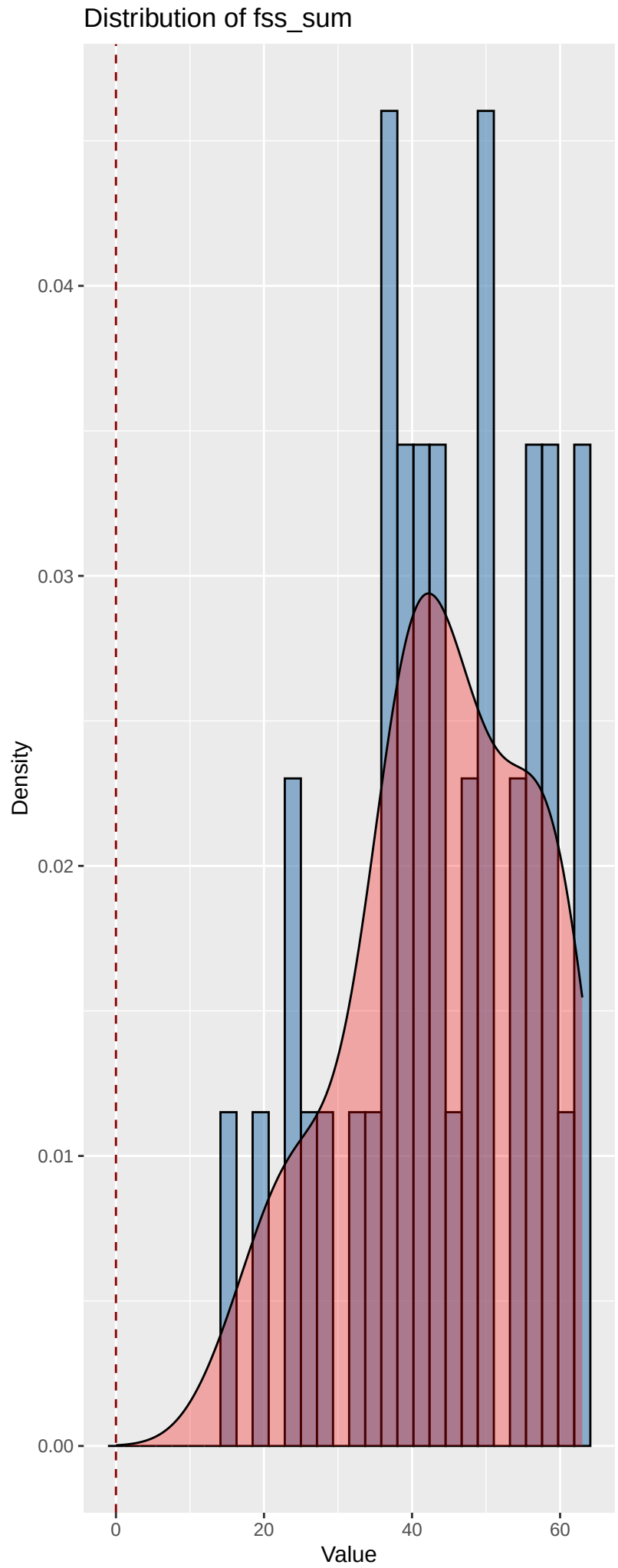
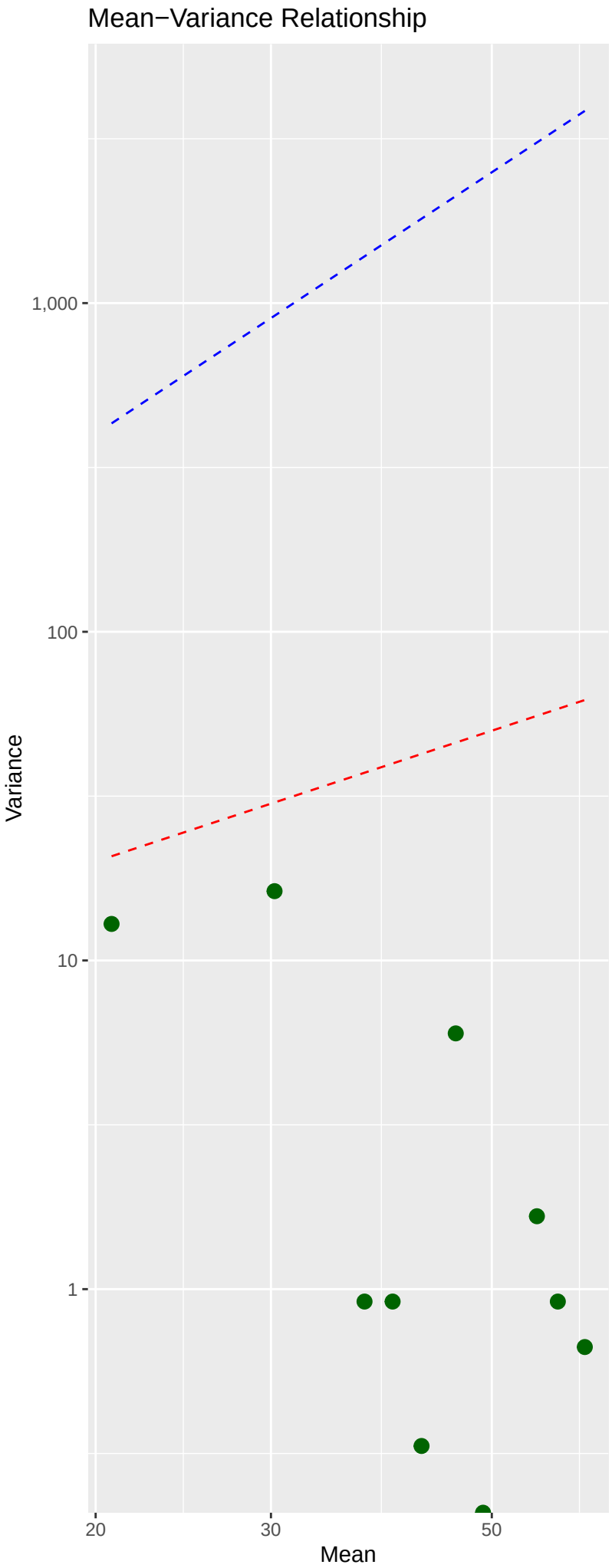
GLM Model Selection Report

Generated: November 28, 2025

Variables analyzed: 3

GLM Diagnostics: fss_sum





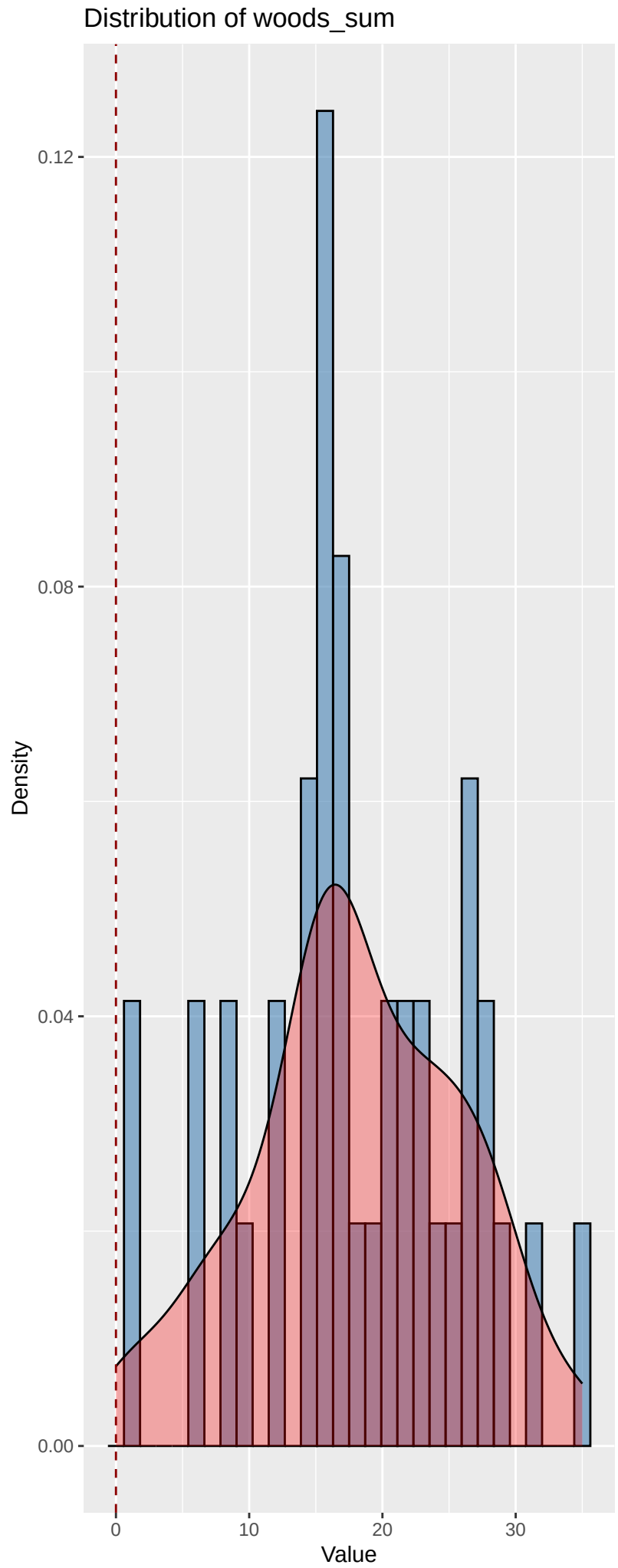
GLM Recommendations for: fss_sum

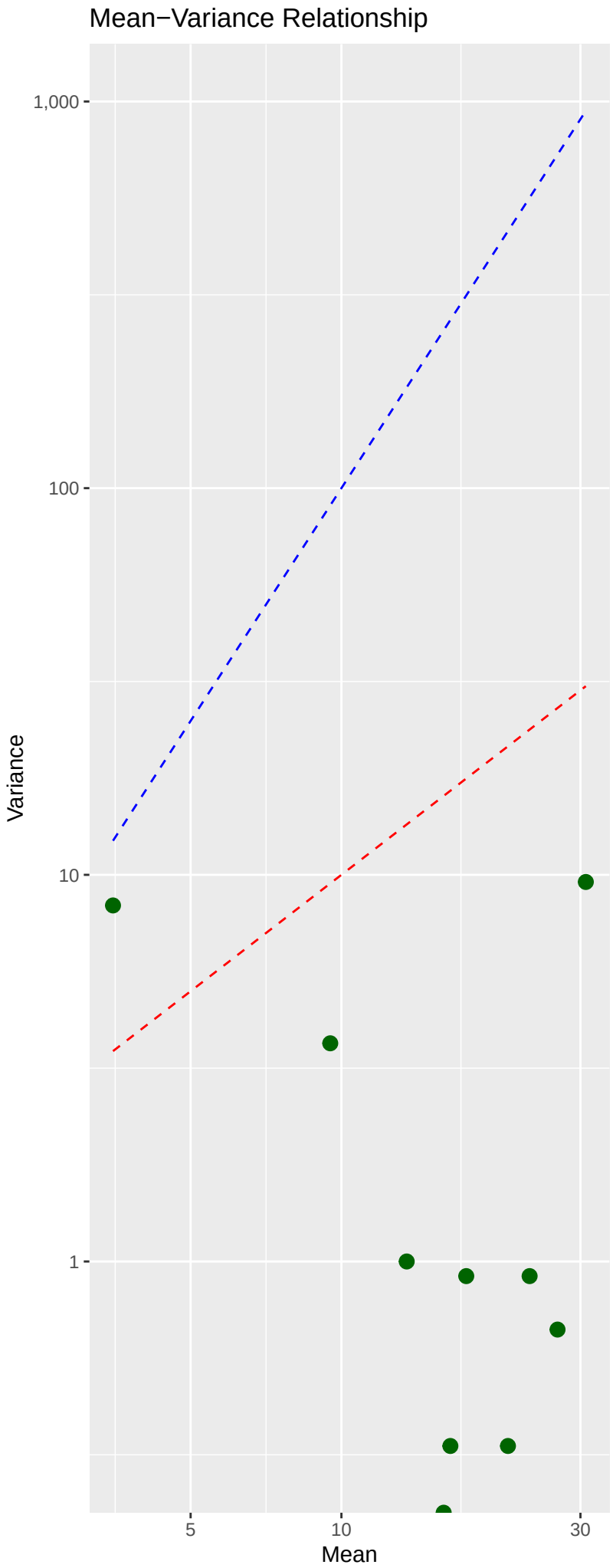
Sample size: 40
Mean: 44.125
Variance: 155.292
Var/Mean ratio: 3.519
Percentage zeros: 0.0%
Unique values: 28
Range: 16.00 to 63.00
Data type: Count

Model Recommendations:
− PRIMARY: Negative Binomial (overdispersed count data)

Interpretation Guide:
• Var/Mean ˜ 1 ... Poisson OK
• Var/Mean > 2 ... Overdispersed ... NegBin
• Var/Mean < 0.8 ... Underdispersed
• High zeros ... Hurdle / Zero−inflated
• 0/1 ... Logistic Regression
• Positive continuous ... Gamma GLM

GLM Diagnostics: woods_sum





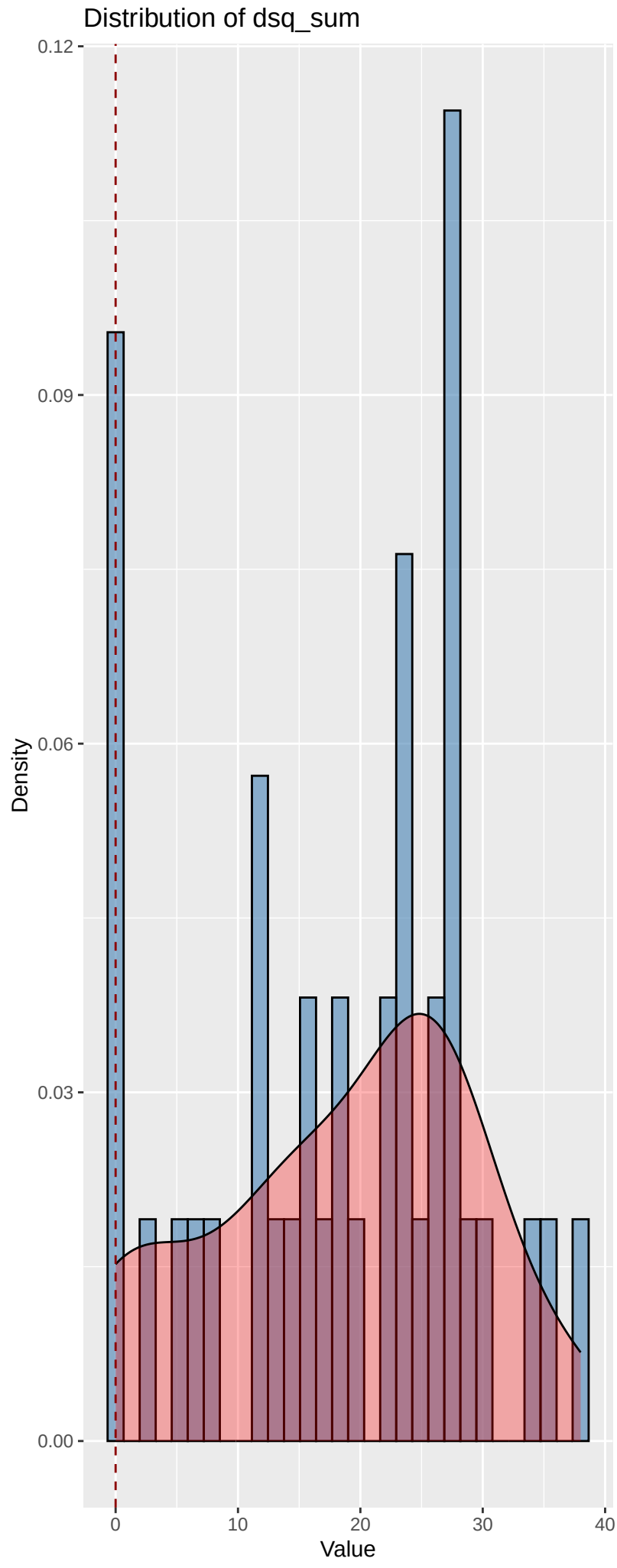
GLM Recommendations for: woods_sum

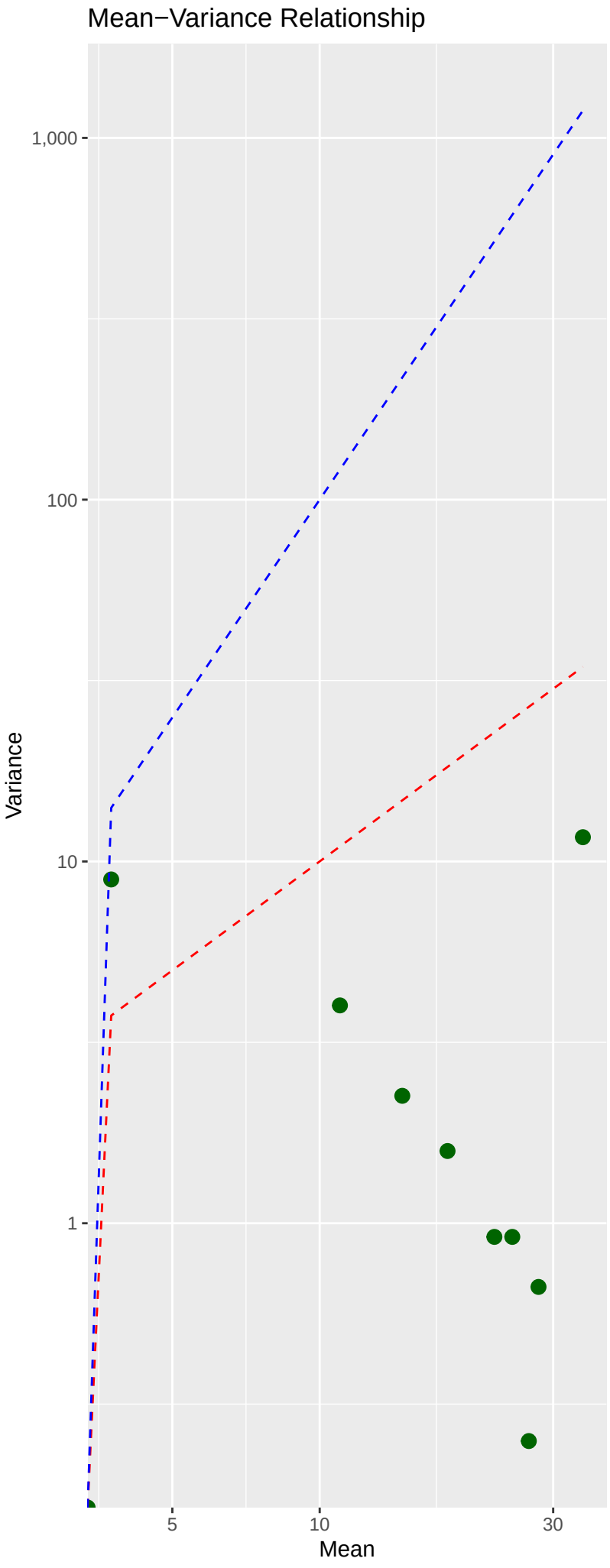
Sample size: 40
Mean: 17.975
Variance: 63.307
Var/Mean ratio: 3.522
Percentage zeros: 0.0%
Unique values: 21
Range: 1.00 to 35.00
Data type: Count

Model Recommendations:
− PRIMARY: Negative Binomial (overdispersed count data)

Interpretation Guide:
• Var/Mean ˜ 1 ... Poisson OK
• Var/Mean > 2 ... Overdispersed ... NegBin
• Var/Mean < 0.8 ... Underdispersed
• High zeros ... Hurdle / Zero−inflated
• 0/1 ... Logistic Regression
• Positive continuous ... Gamma GLM

GLM Diagnostics: dsq_sum





GLM Recommendations for: dsq_sum

Sample size: 40
Mean: 18.450
Variance: 115.382
Var/Mean ratio: 6.254
Percentage zeros: 12.5%
Unique values: 24
Range: 0.00 to 38.00
Data type: Count

Model Recommendations:
− PRIMARY: Negative Binomial (overdispersed count data)
− SECONDARY: Strong overdispersion detected

Interpretation Guide:
• Var/Mean ˜ 1 ... Poisson OK
• Var/Mean > 2 ... Overdispersed ... NegBin
• Var/Mean < 0.8 ... Underdispersed
• High zeros ... Hurdle / Zero−inflated
• 0/1 ... Logistic Regression
• Positive continuous ... Gamma GLM