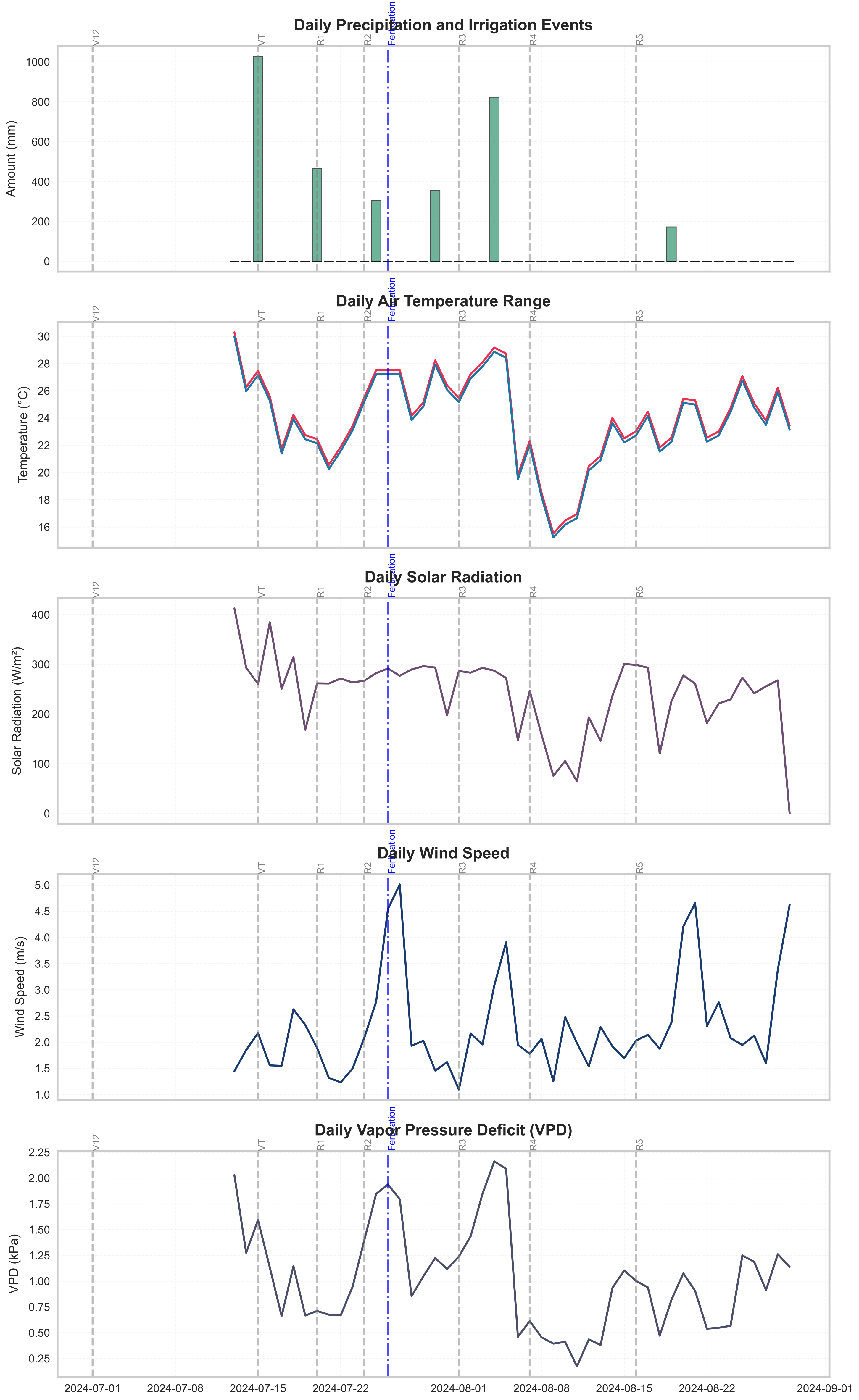
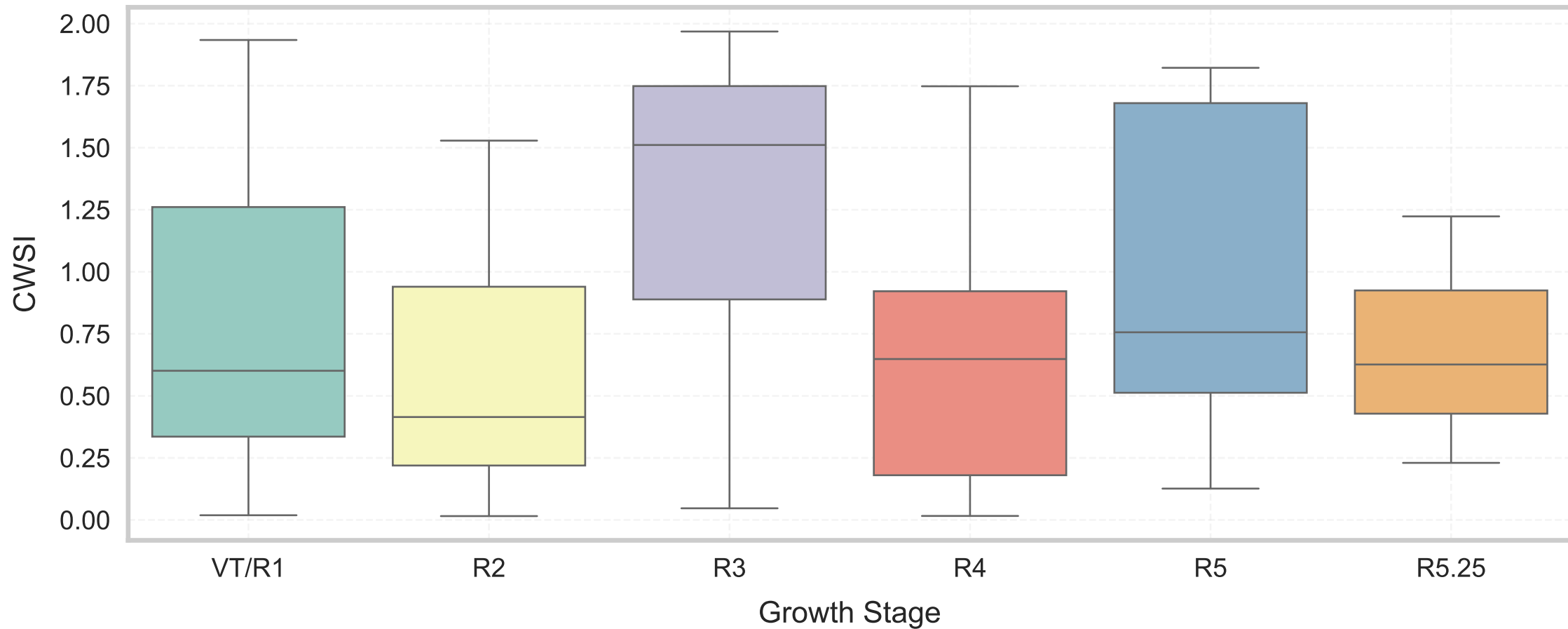


Figure 3: Seasonal Weather Patterns and Environmental Variables



CWSI Distribution by Growth Stage (Corn)



CWSI Distribution by Growth Stage (Soybeans)

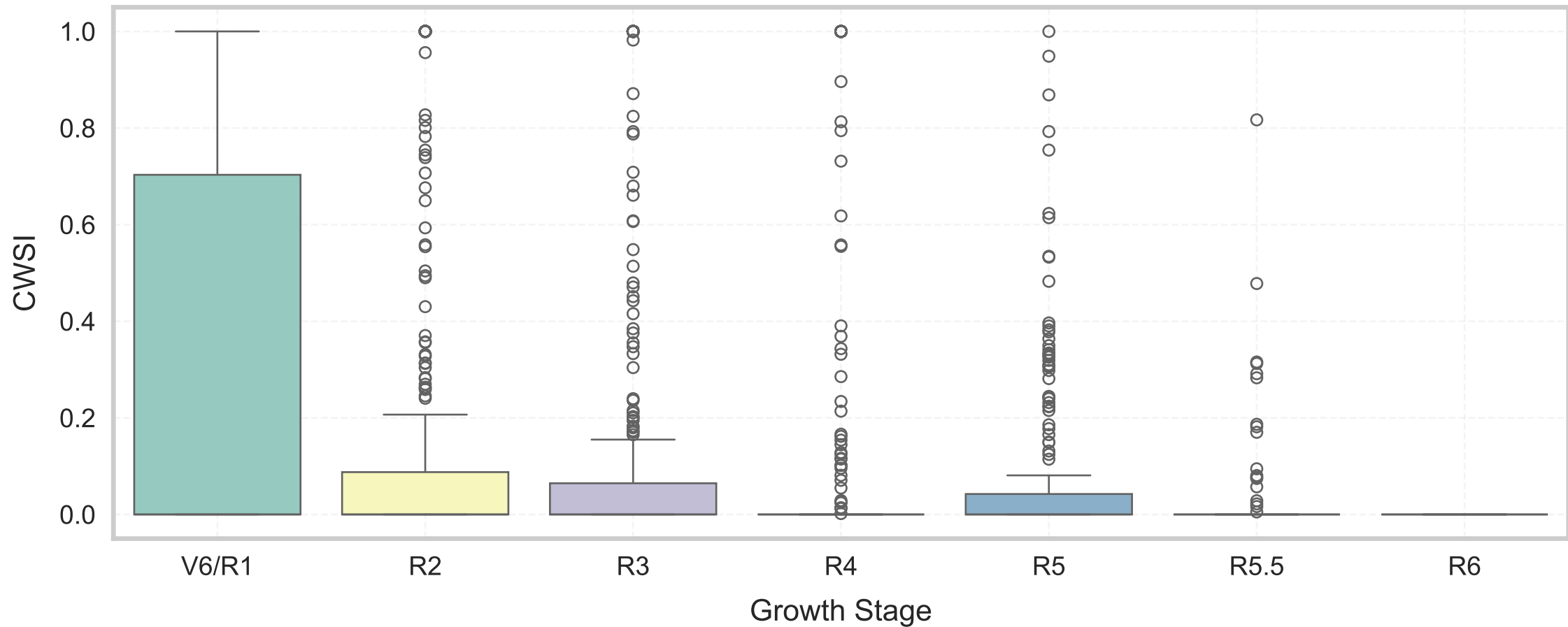


Figure 5: Soil Moisture Monitoring and SWSI Calculation

Soil Moisture at Different Depths Over Time

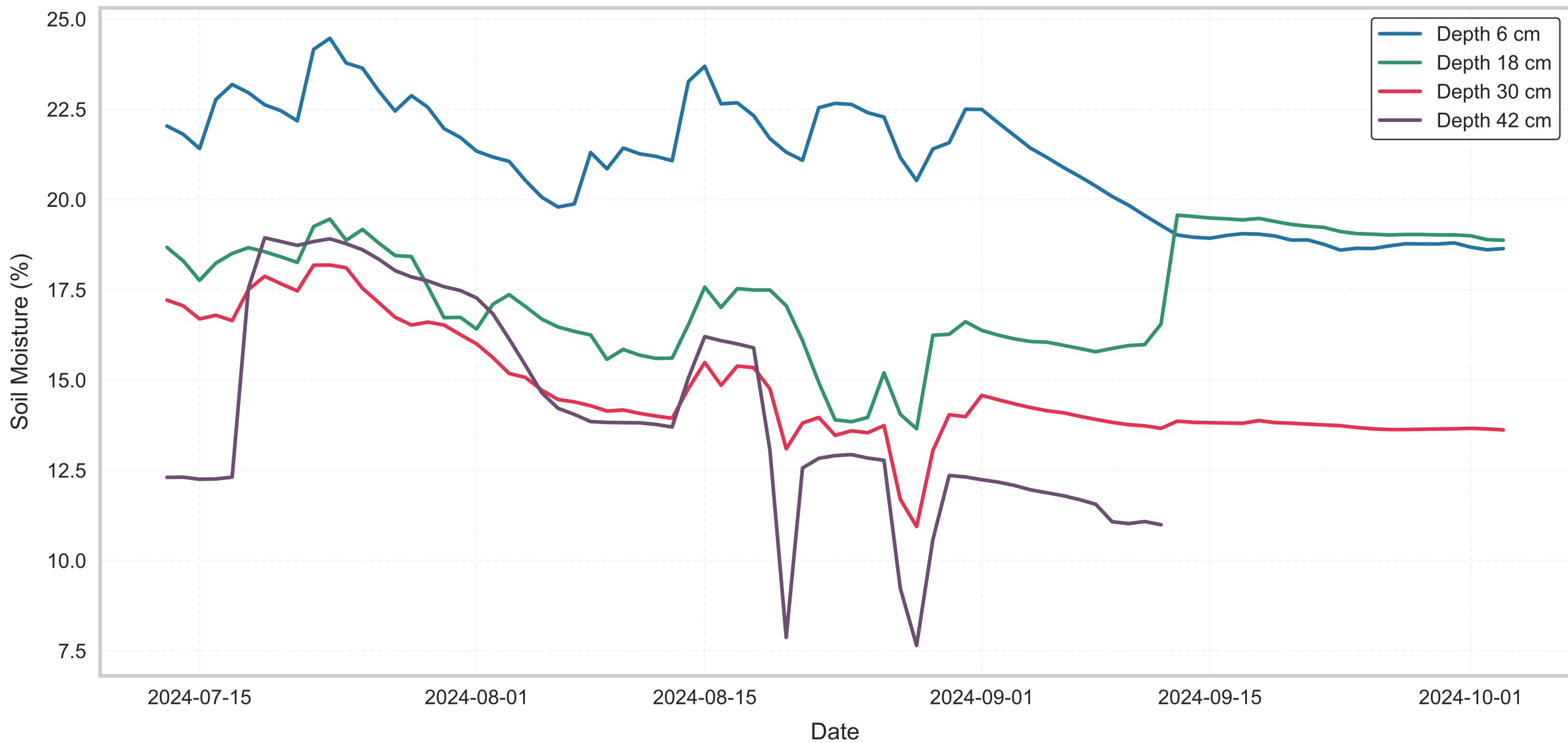


Figure 5: Soil Moisture Monitoring and SWSI Calculation
Soil Water Stress Index Over Time

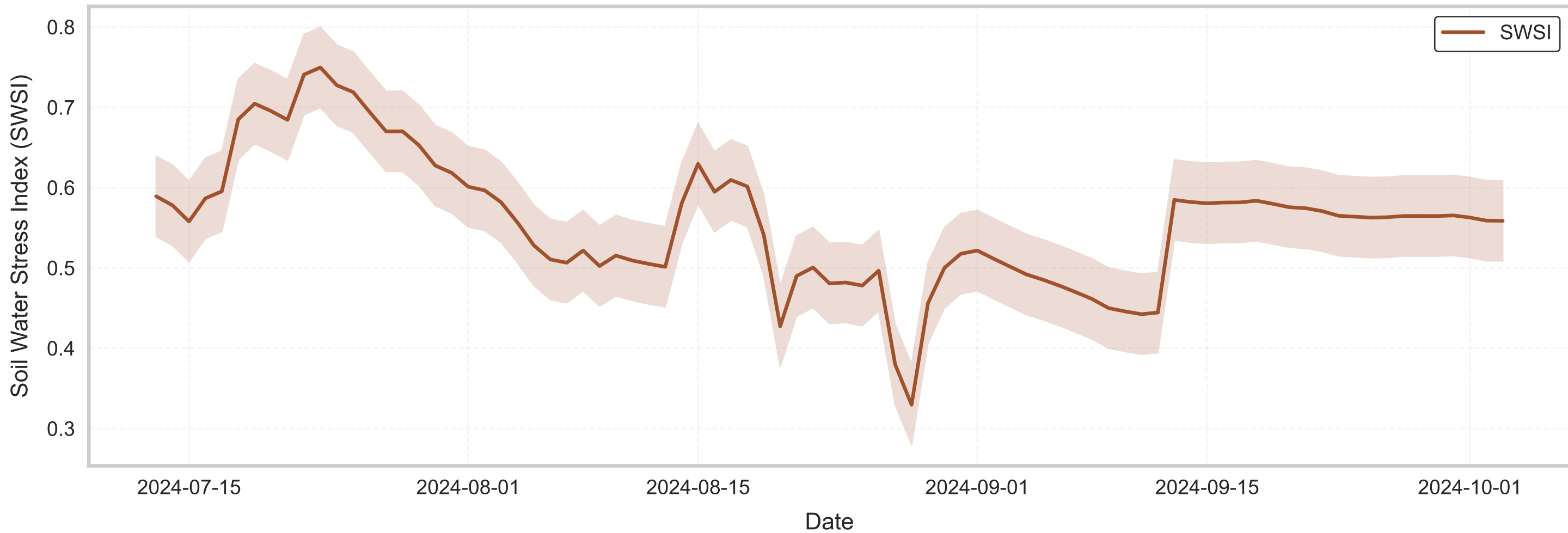


Figure 6: Combined Index Analysis and Weighting System
Correlation between SWSI and CWSI



Time Series of SWSI, CWSI, and Combined Index



Irrigation Decision Threshold Based on Combined Index

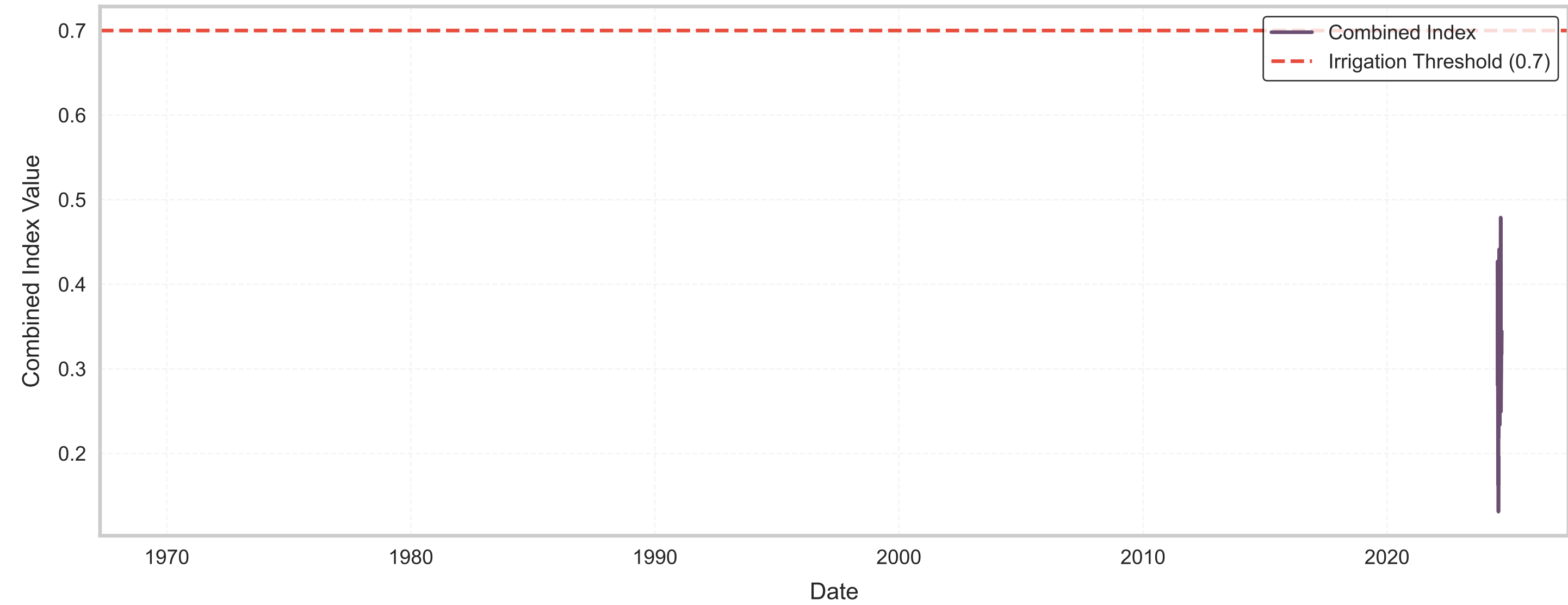


Figure 7: System Response Analysis

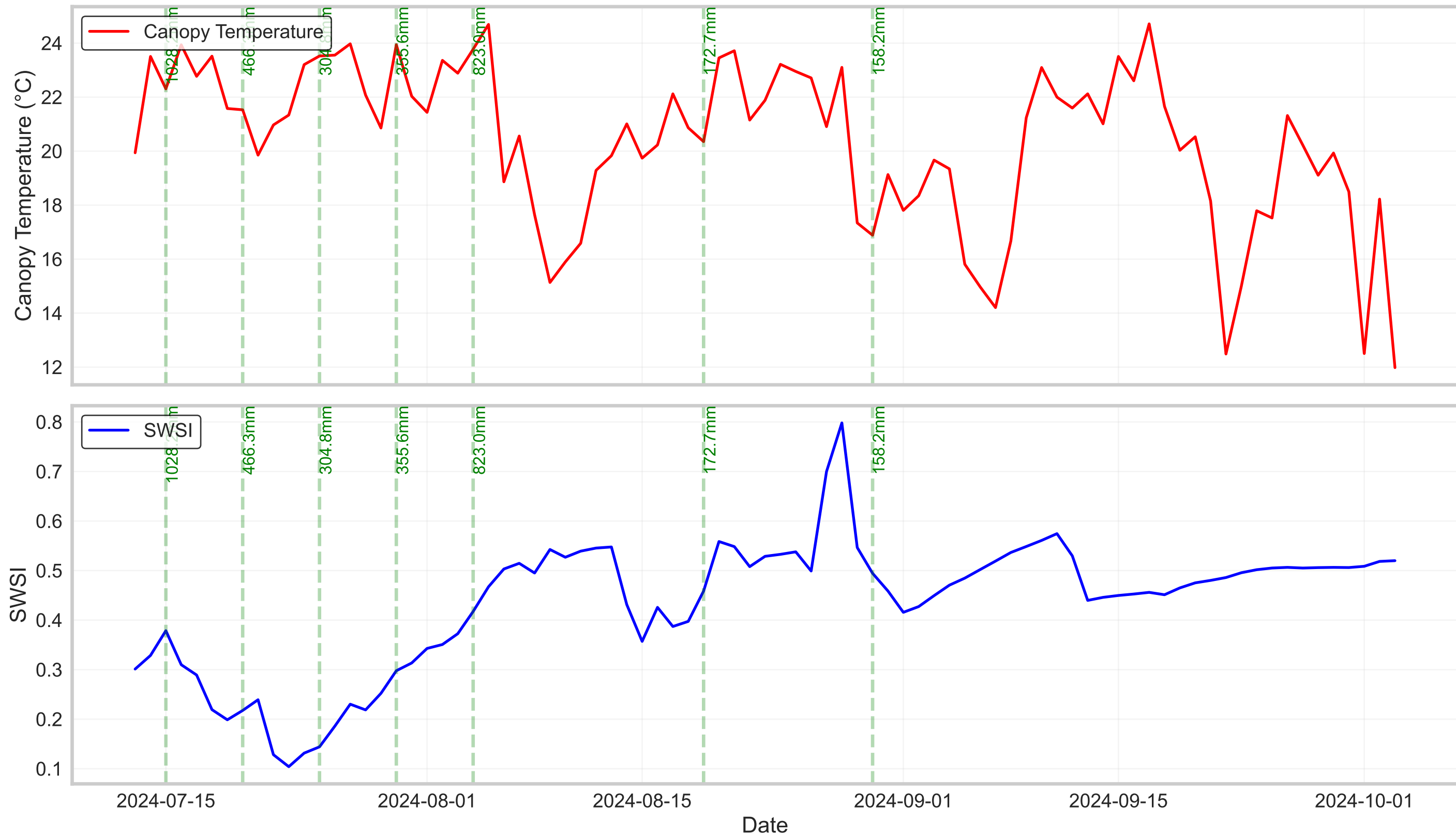


Figure 8: Monthly Stress Index Distributions
Monthly Stress Index Distributions Across Treatments

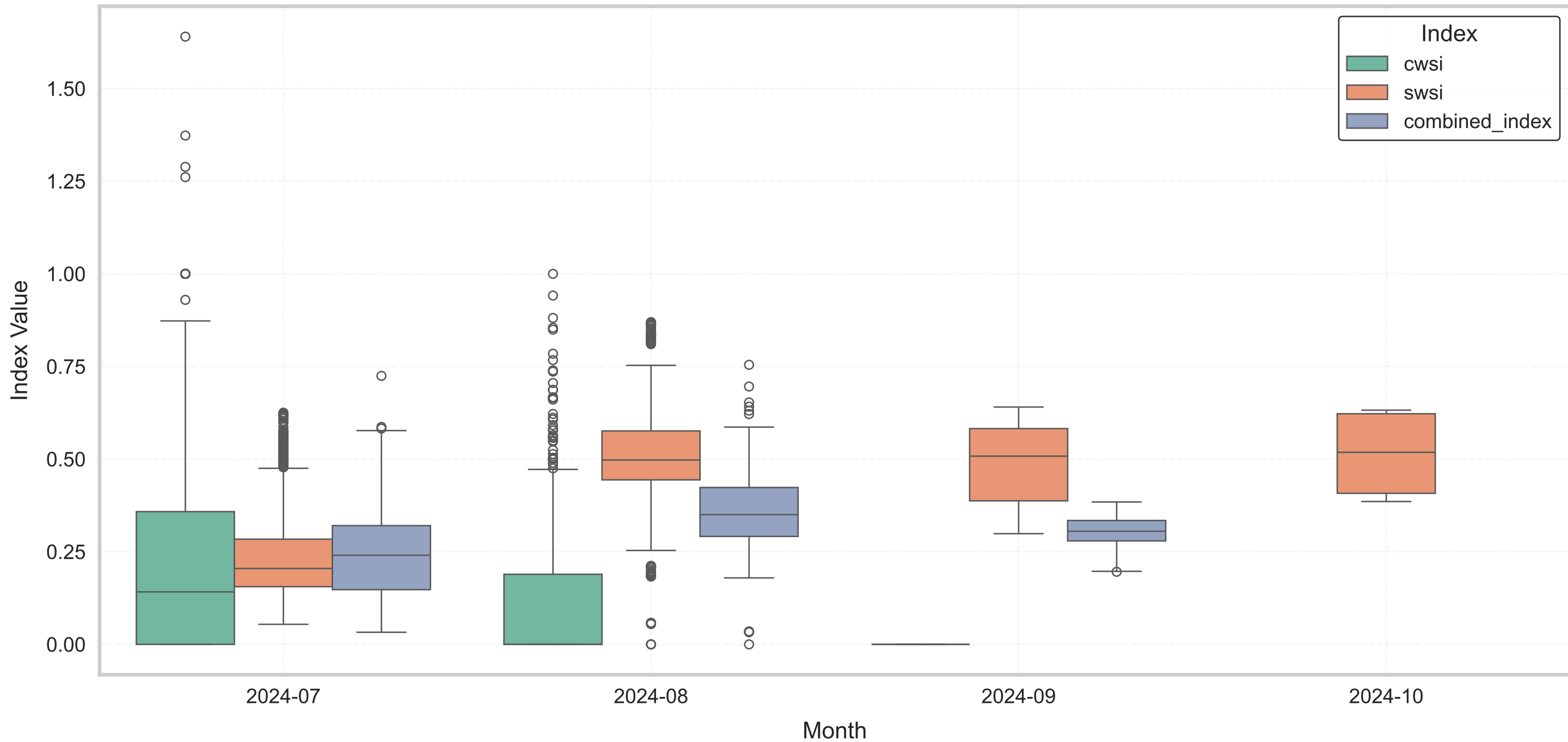


Figure 9: Irrigation Application Patterns
Daily Irrigation Amounts by Treatment

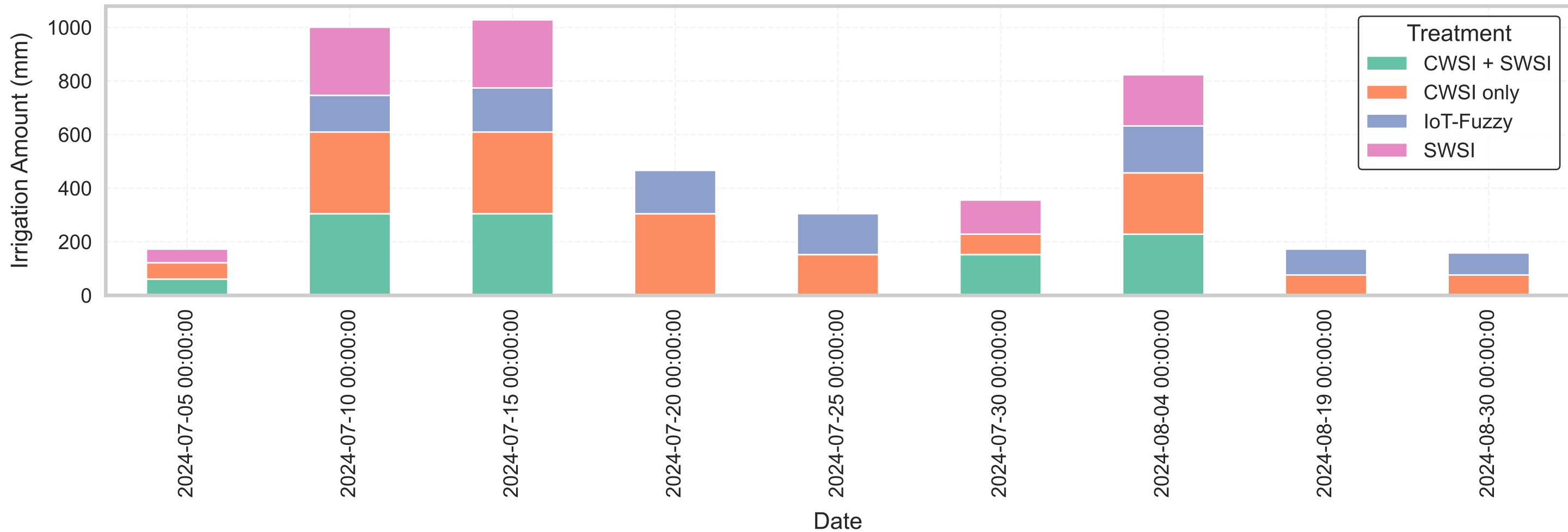


Figure 9: Irrigation Application Patterns
Cumulative Irrigation Amounts by Treatment

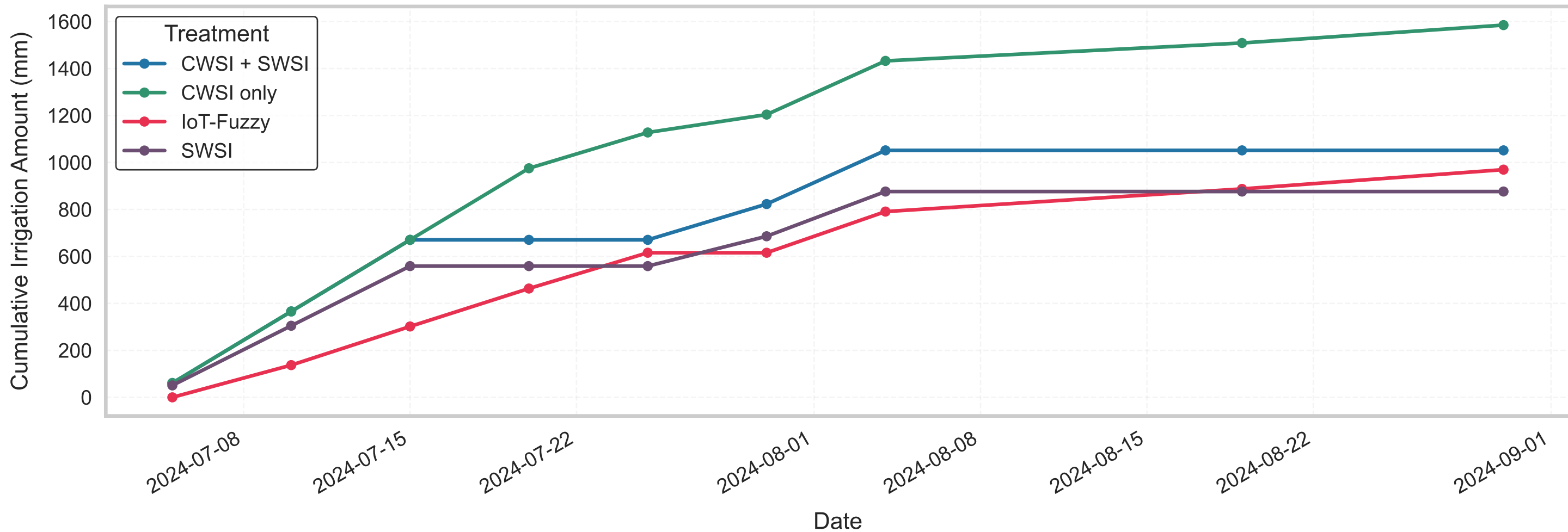


Figure 10: Yield Distribution Analysis

Yield Distribution by Treatment

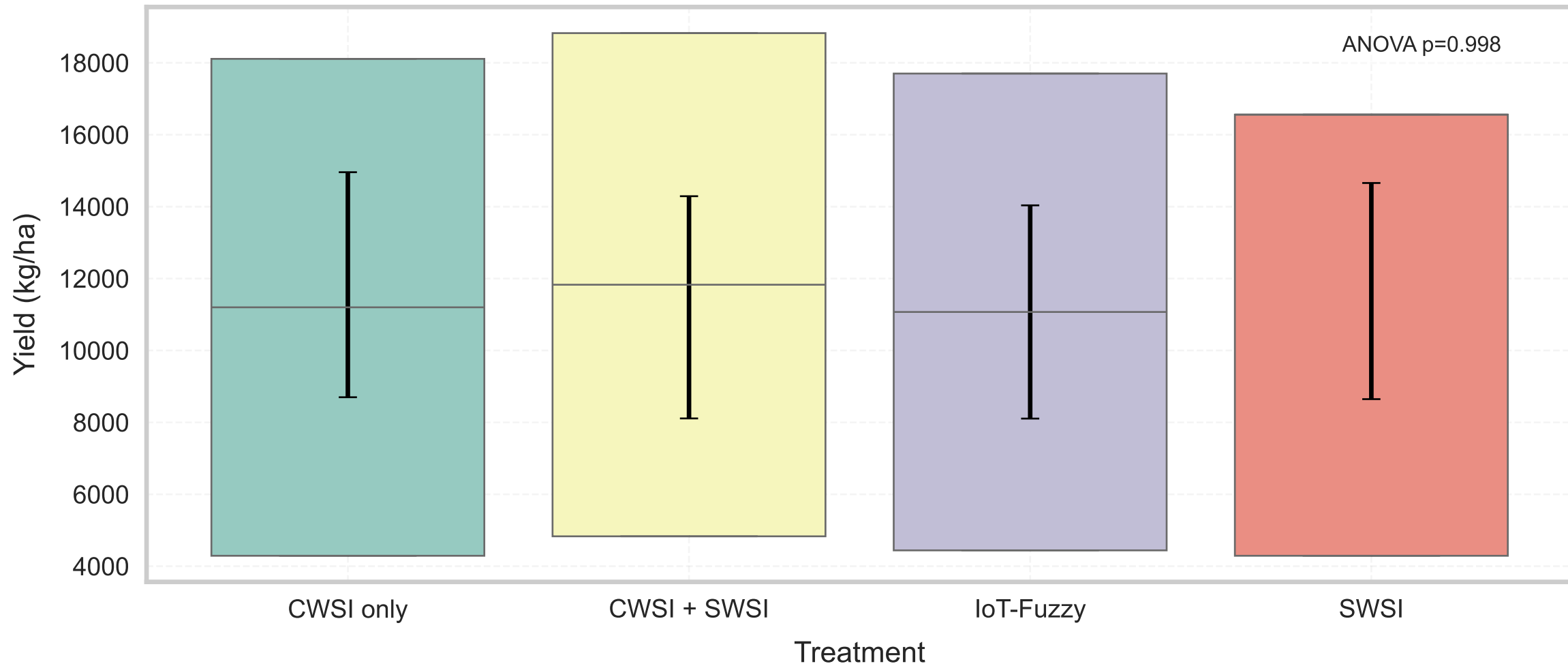


Figure 10: Yield Distribution Analysis
Individual Plot Yields by Treatment and Crop Type

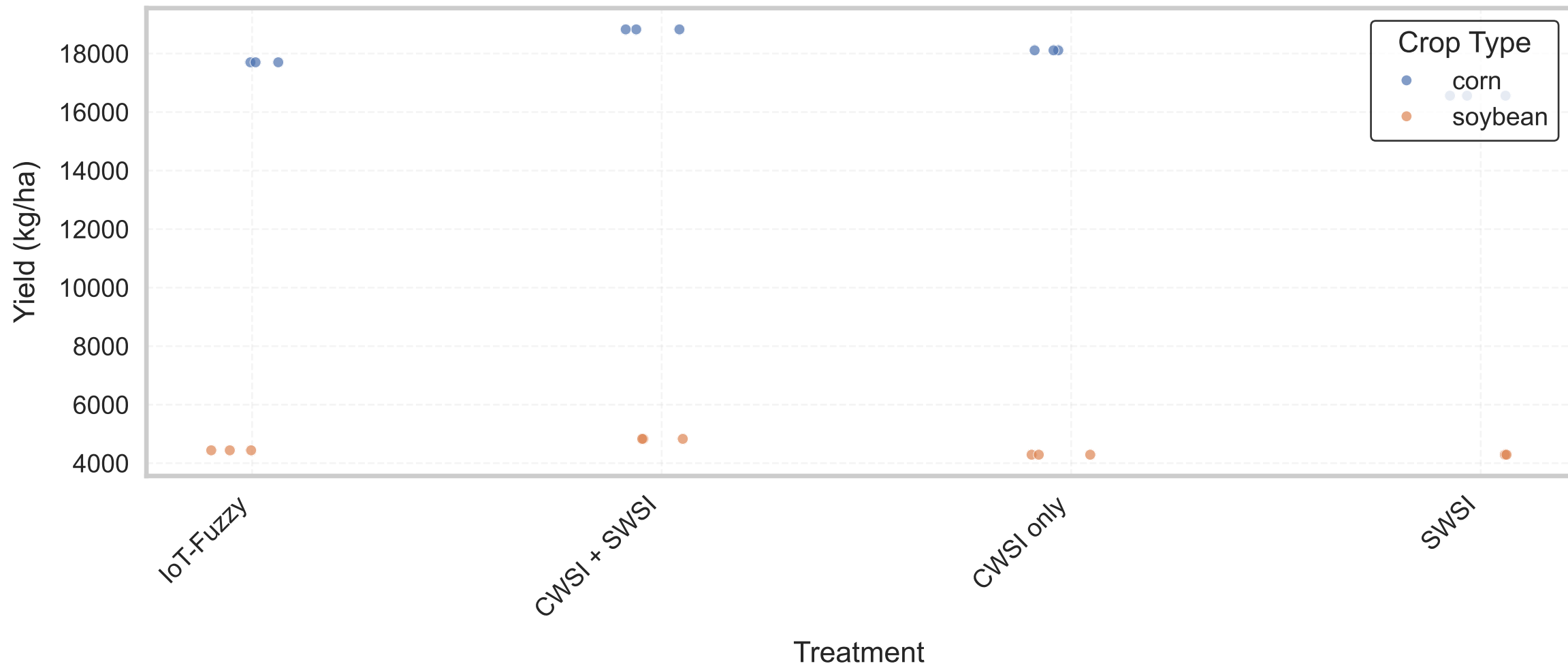


Figure 11: Water Use Efficiency Metrics
IWUE by Treatment

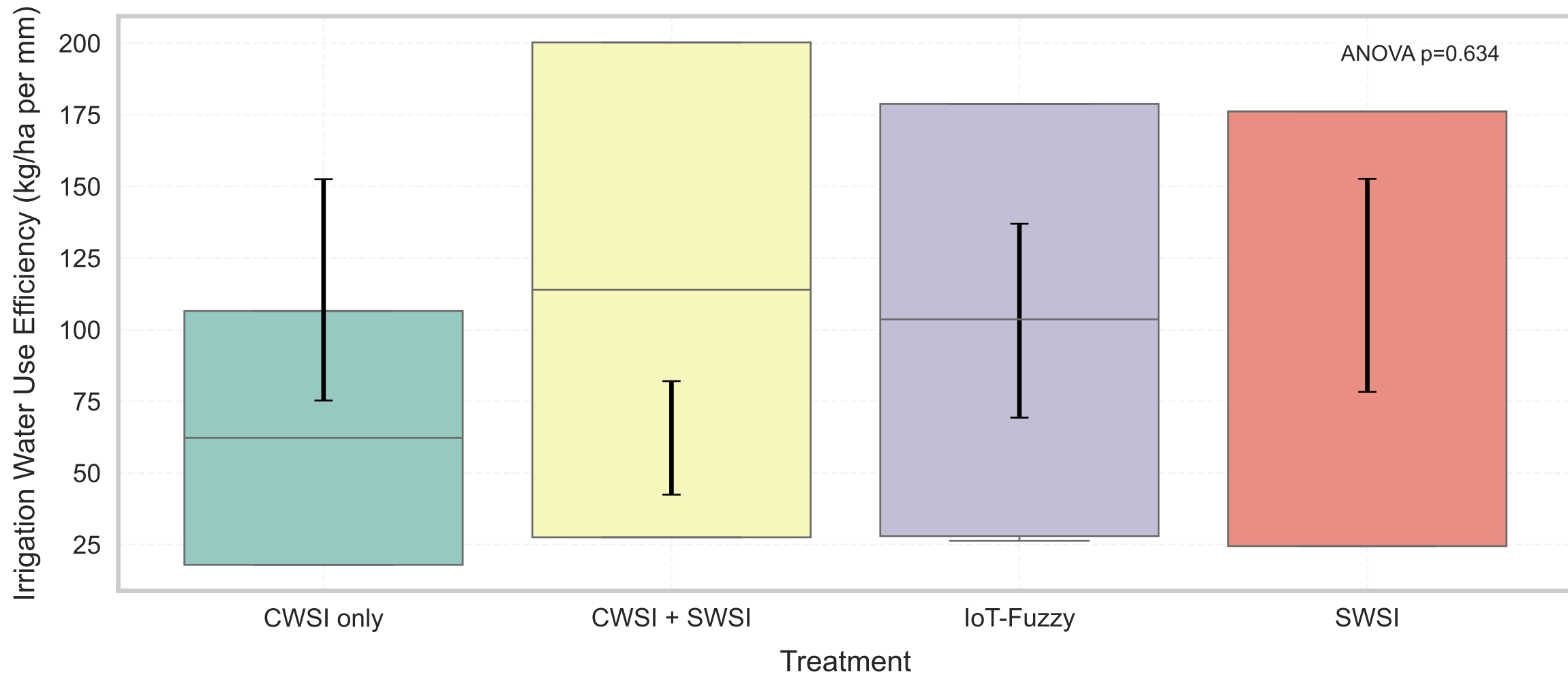


Figure 11: Water Use Efficiency Metrics
CWUE by Treatment

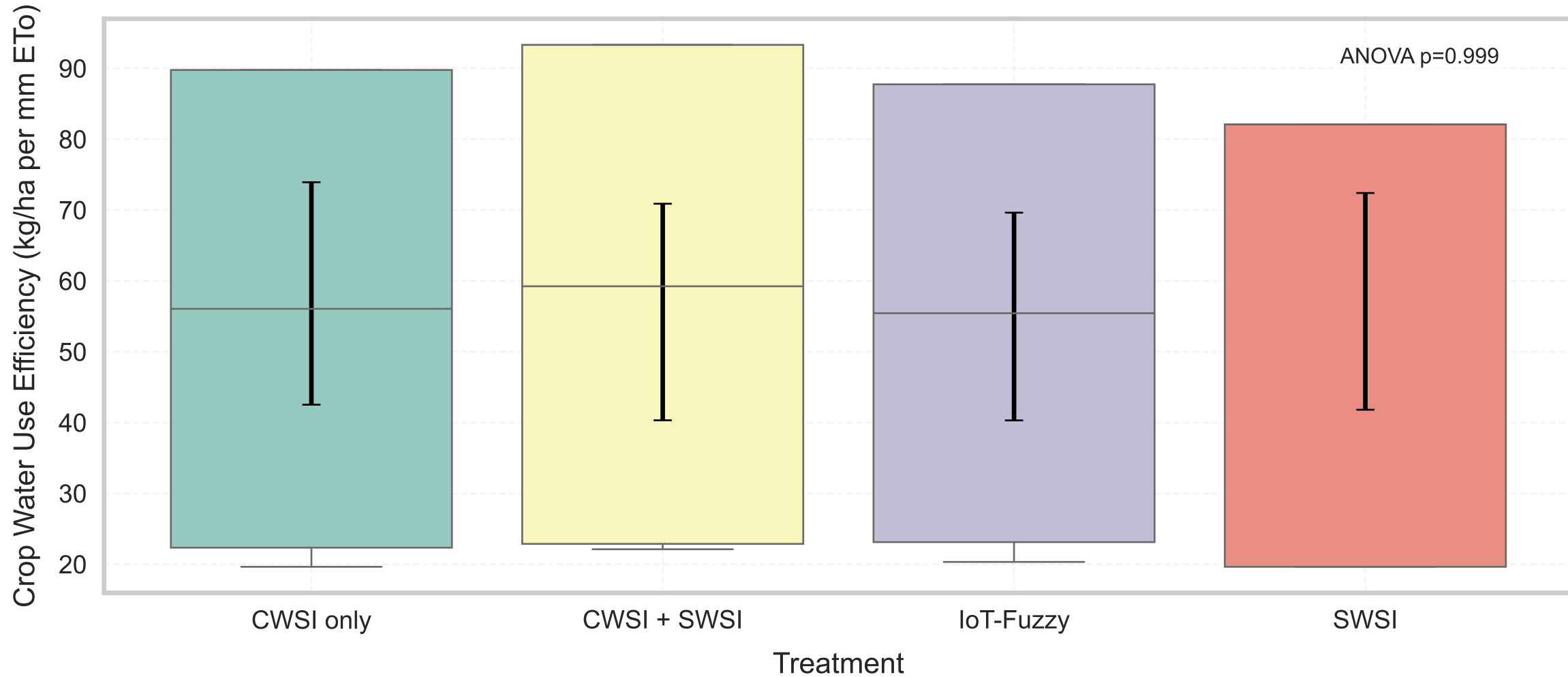
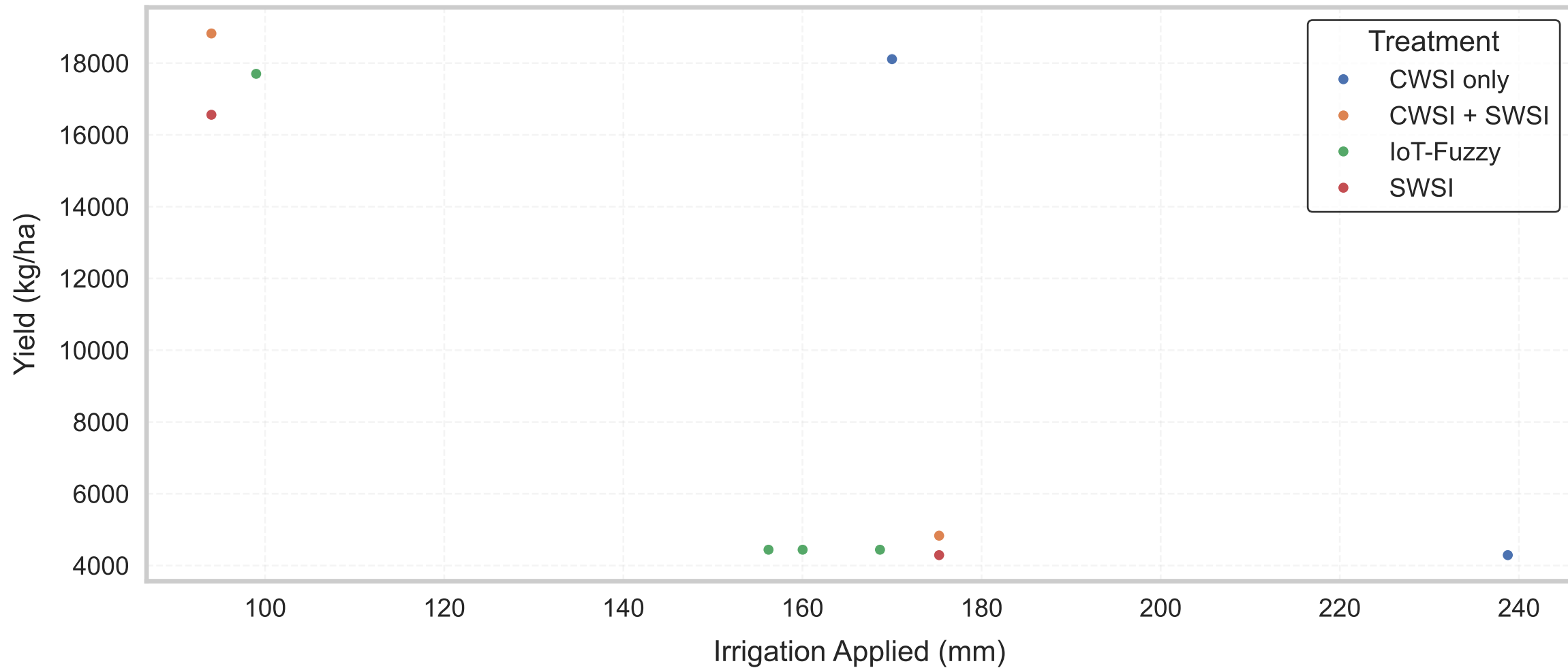


Figure 11: Water Use Efficiency Metrics
Relationship between Applied Water and Yield by Treatment



Dry Day

