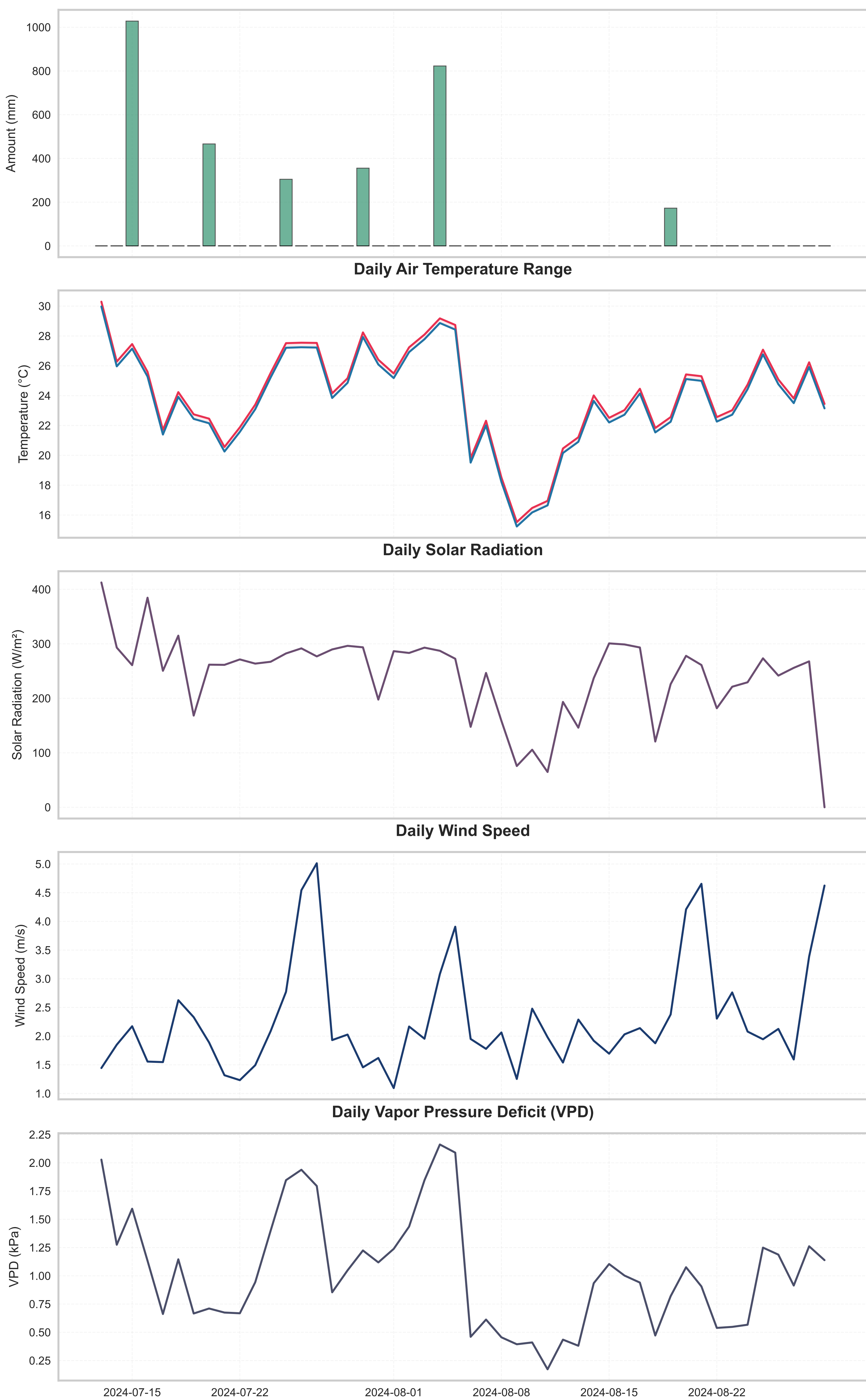
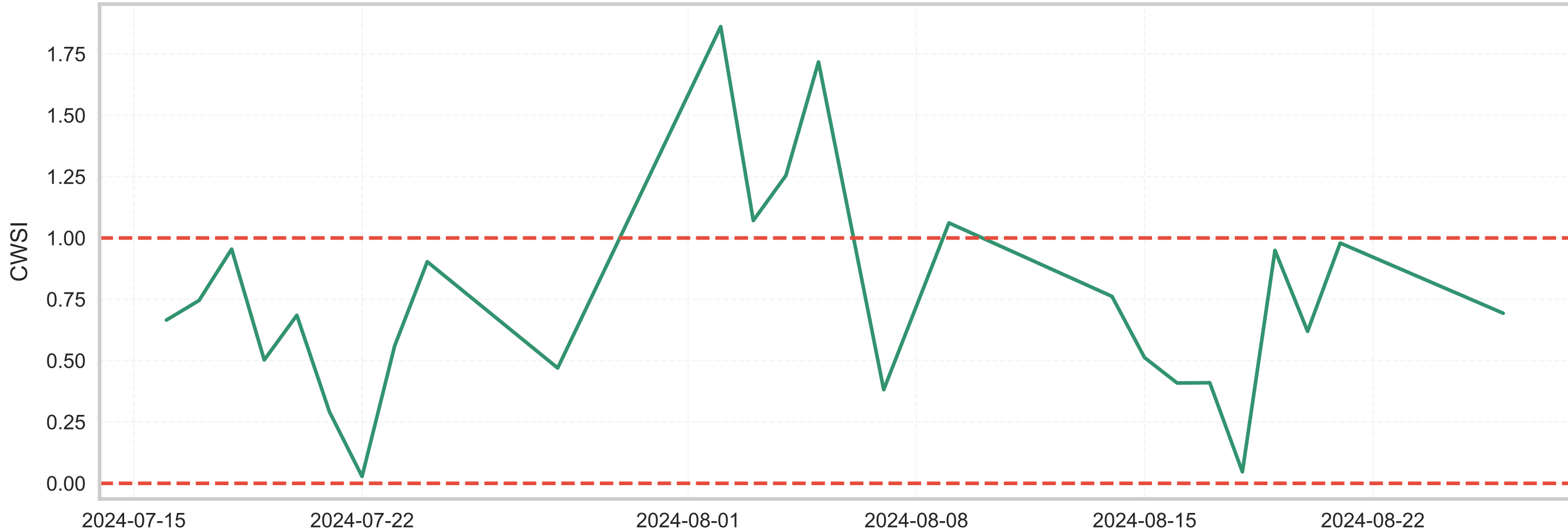


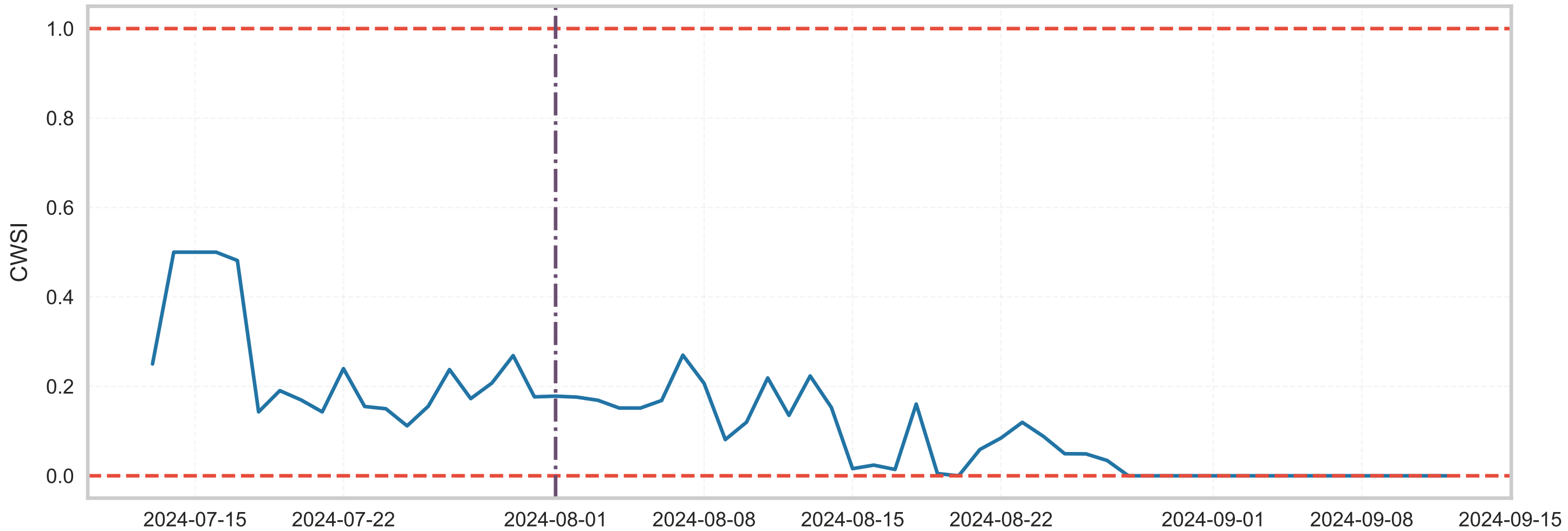
Figure 3: Seasonal Weather Patterns and Environmental Variables  
Daily Precipitation and Irrigation Events



**Figure 4: CWSI Implementation Analysis**  
**Daily CWSI Values for Corn**

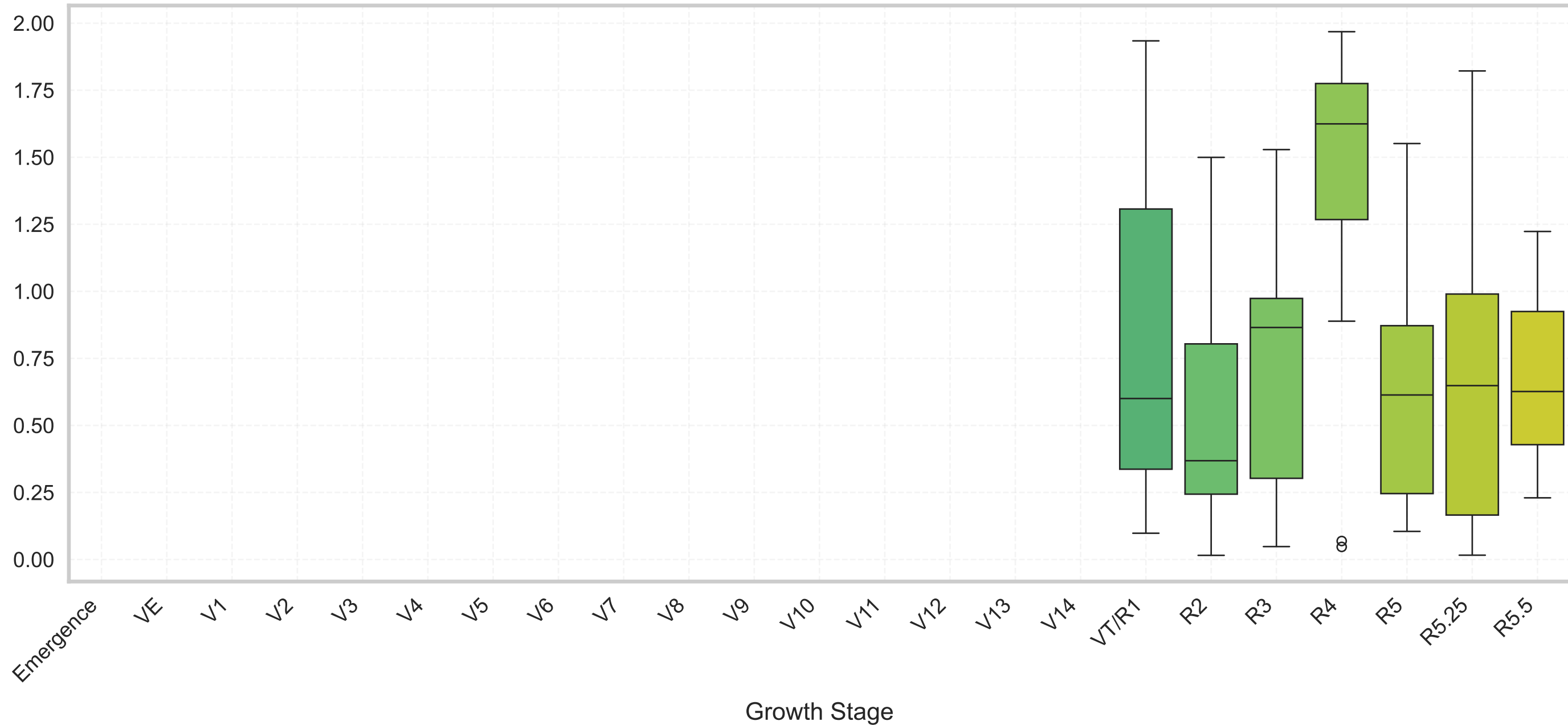


**Figure 4b: Daily CWSI for Soybeans with Transition Point**  
**Daily CWSI Values for Soybeans**

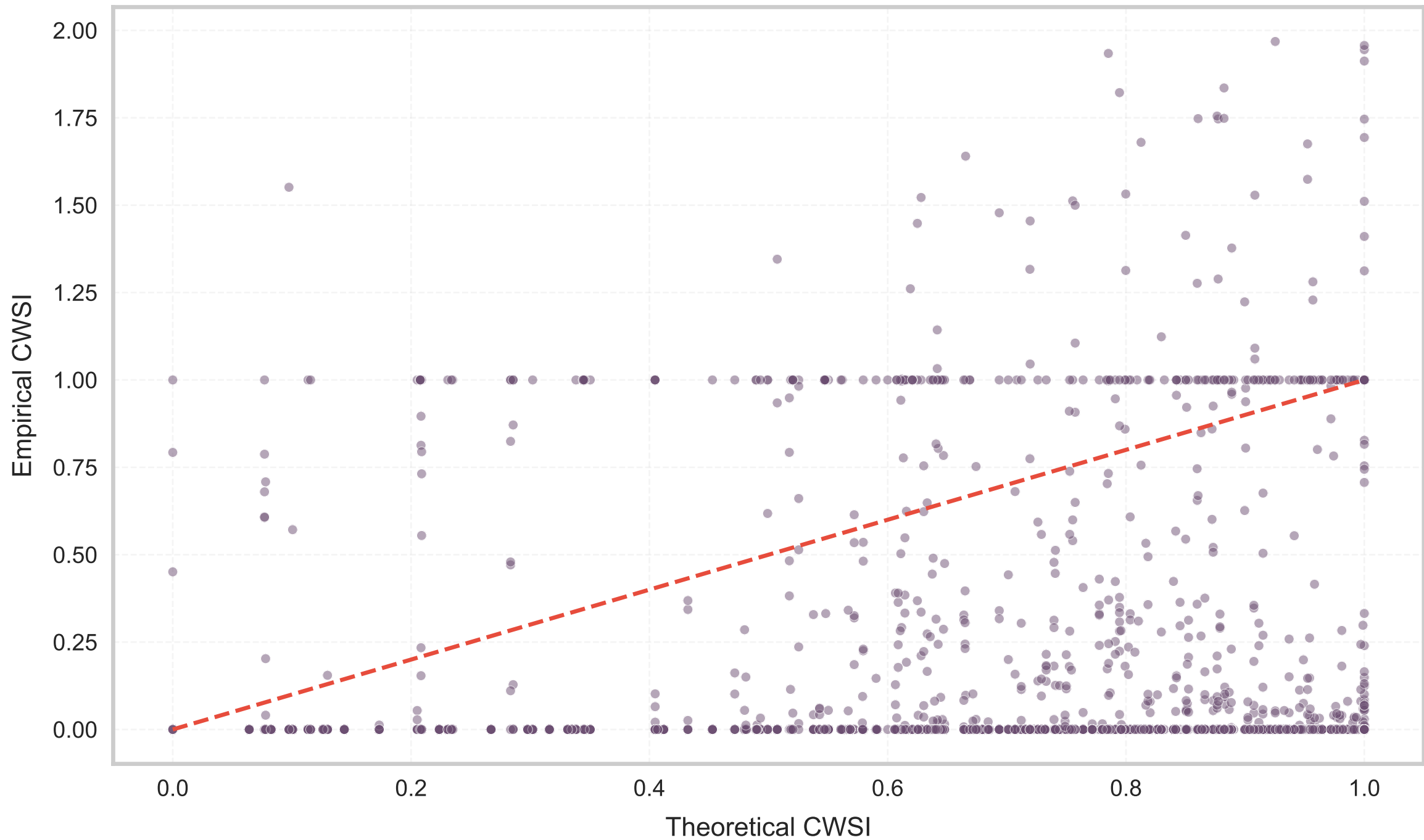


# Figure 4: CWSI Implementation Analysis

## CWSI Distribution by Growth Stage (Corn)

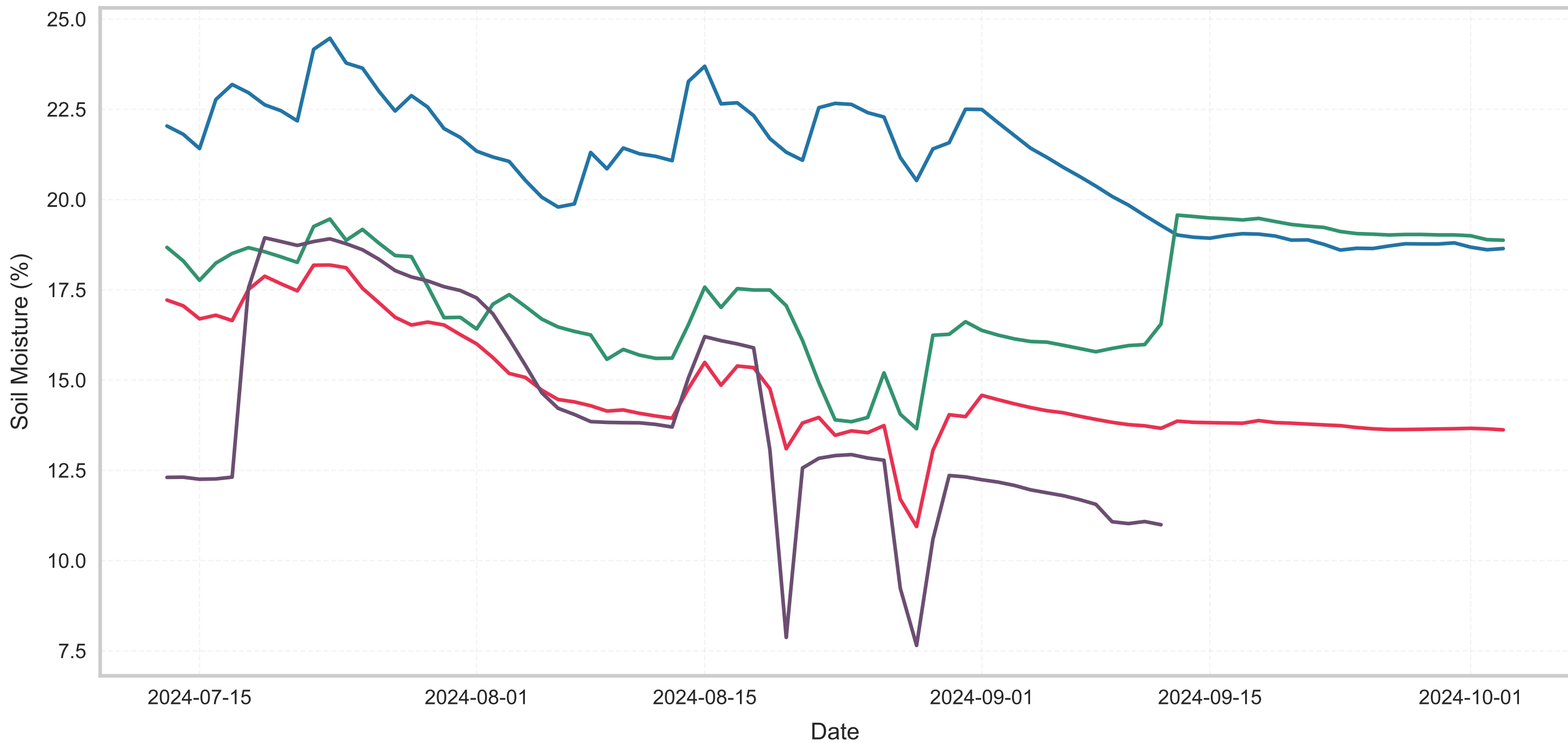


**Figure 4: CWSI Implementation Analysis**  
**Comparison of Theoretical vs Empirical CWSI**

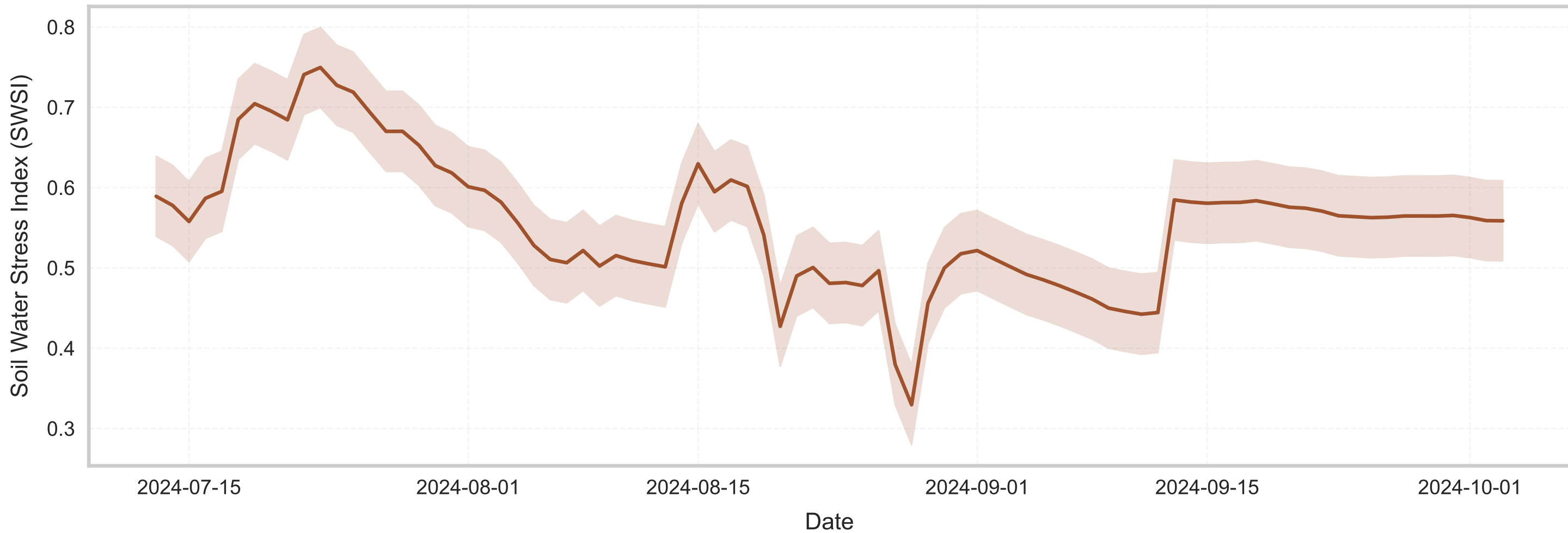


# Figure 5: Soil Moisture Monitoring and SWSI Calculation

## Soil Moisture at Different Depths Over Time



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



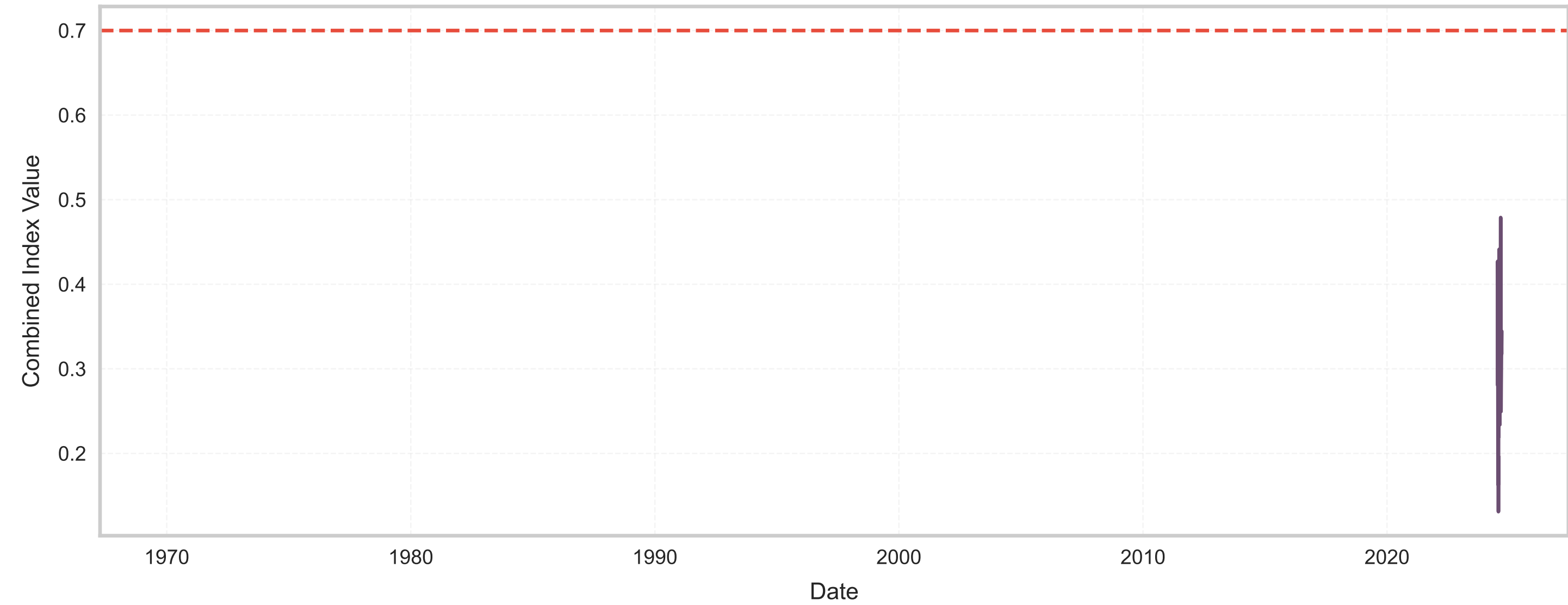
**Figure 6: Combined Index Analysis and Weighting System**  
**Correlation between SWSI and CWSI**



**Time Series of SWSI, CWSI, and Combined Index**



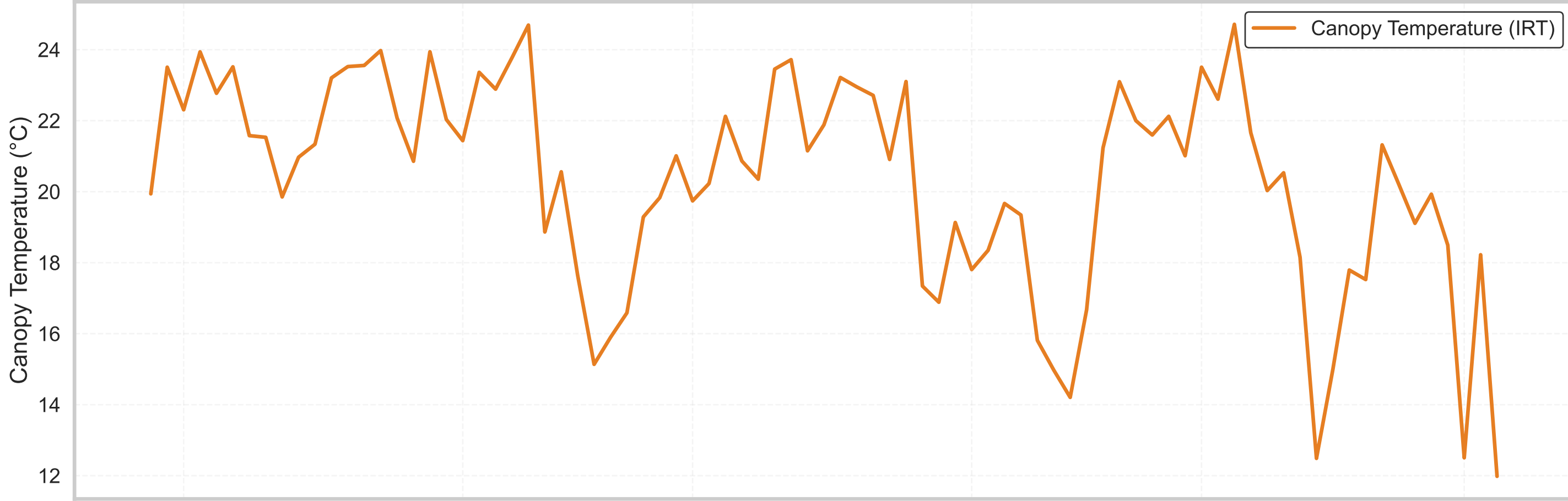
**Irrigation Decision Threshold Based on Combined Index**



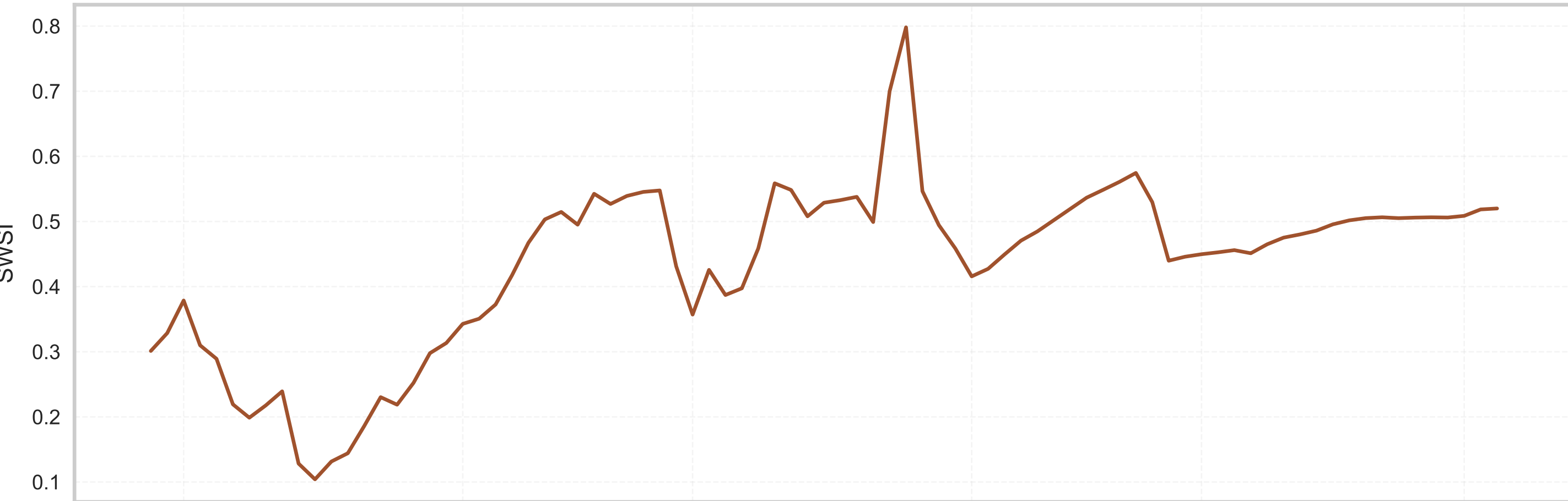


**Figure 7: System Response Analysis**

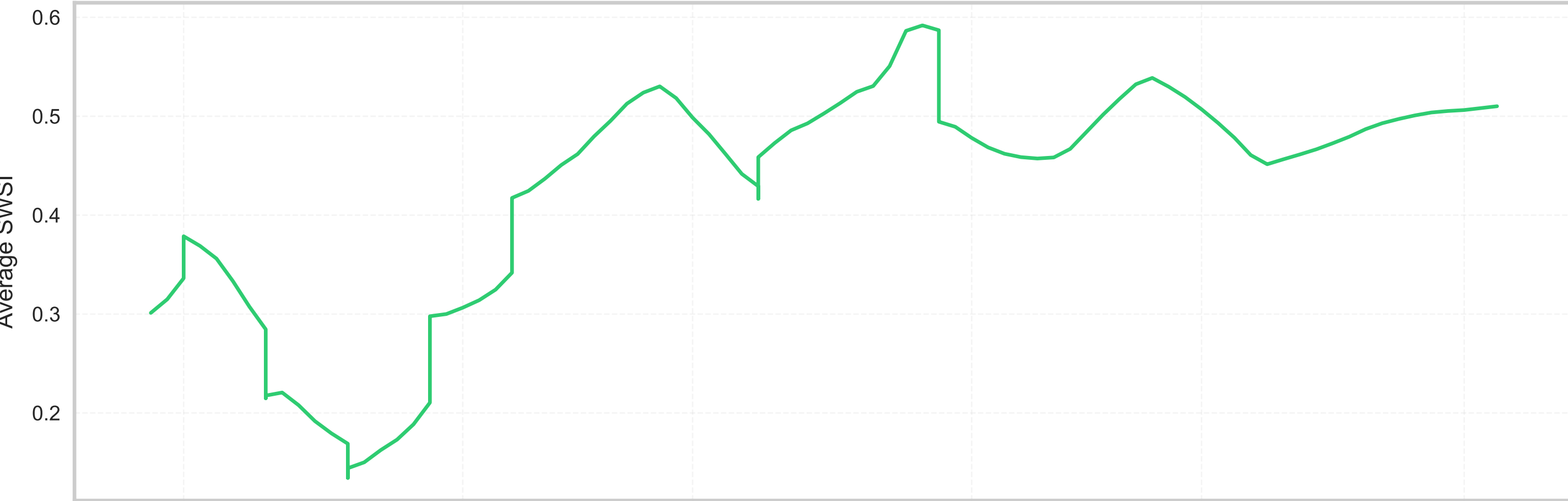
Canopy Temperature Response to Irrigation/Rainfall



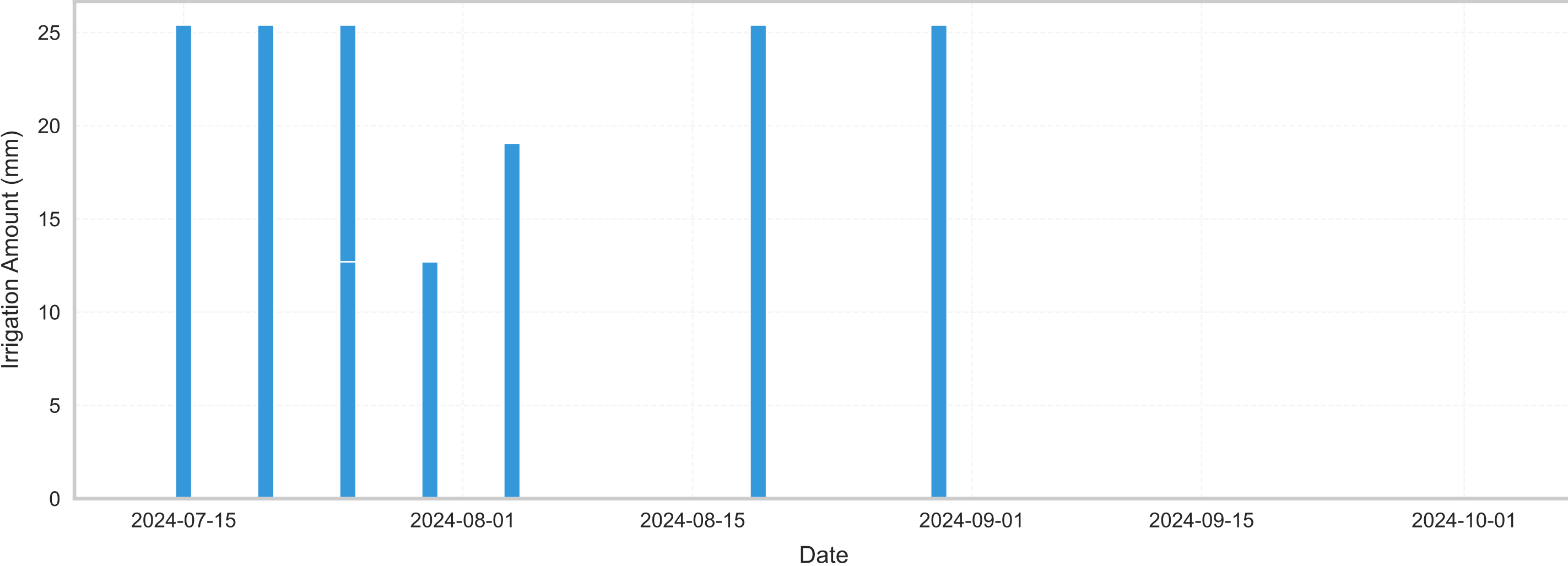
Soil Moisture Changes



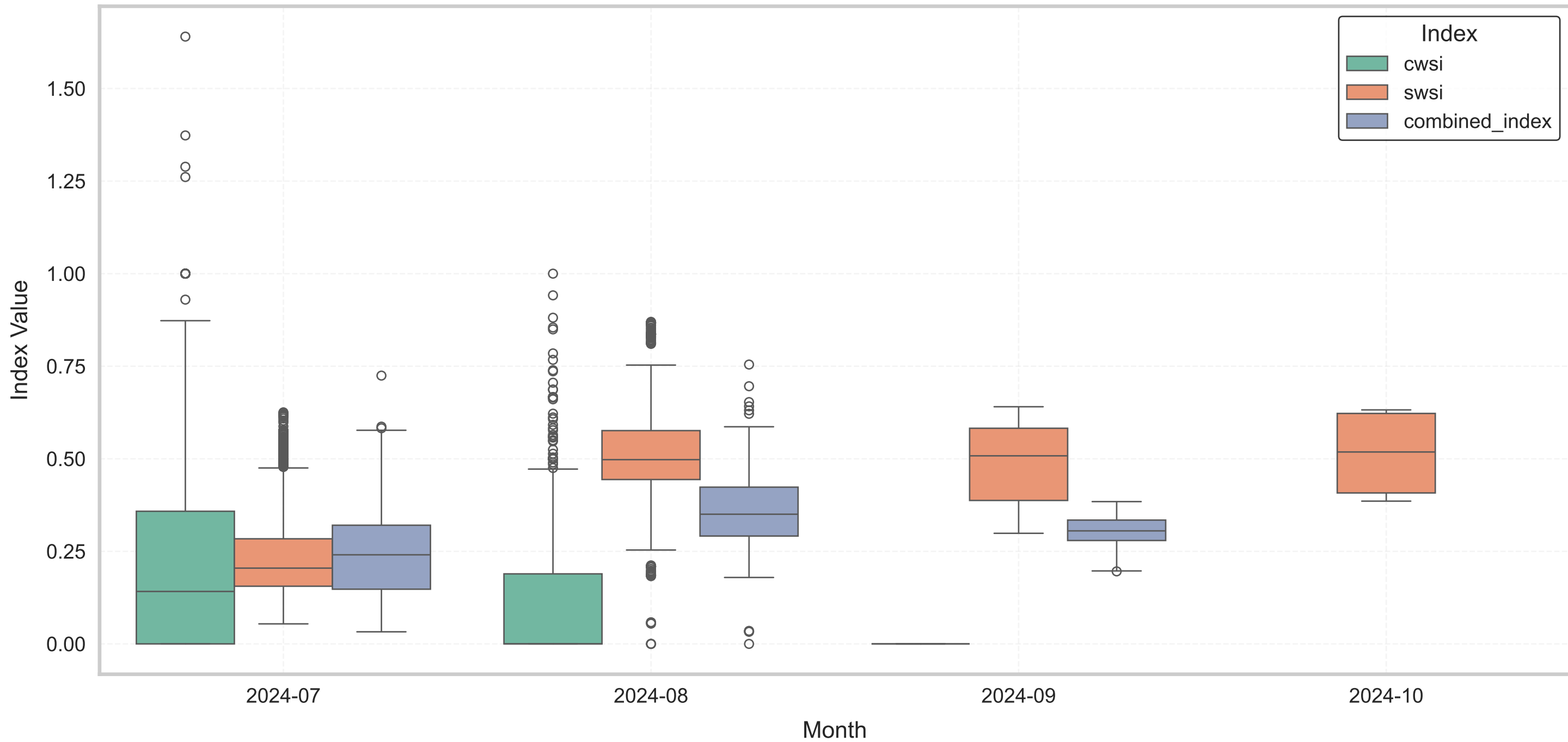
Recovery Patterns of SWSI After Irrigation Events



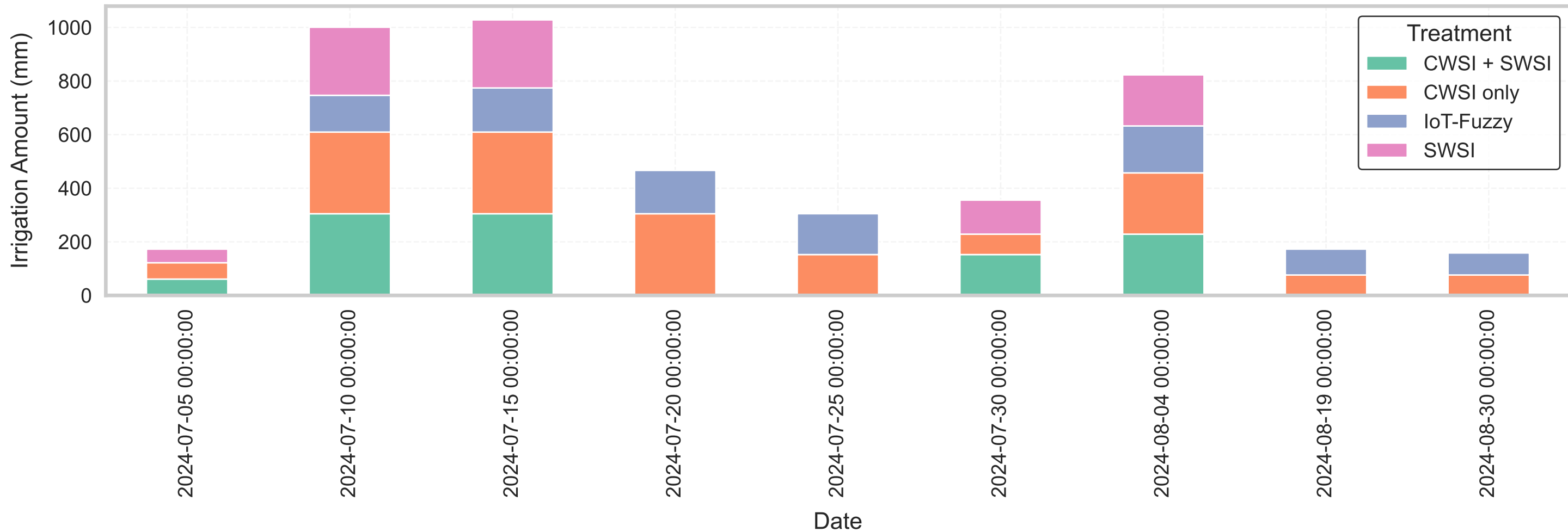
Irrigation Events Over Time



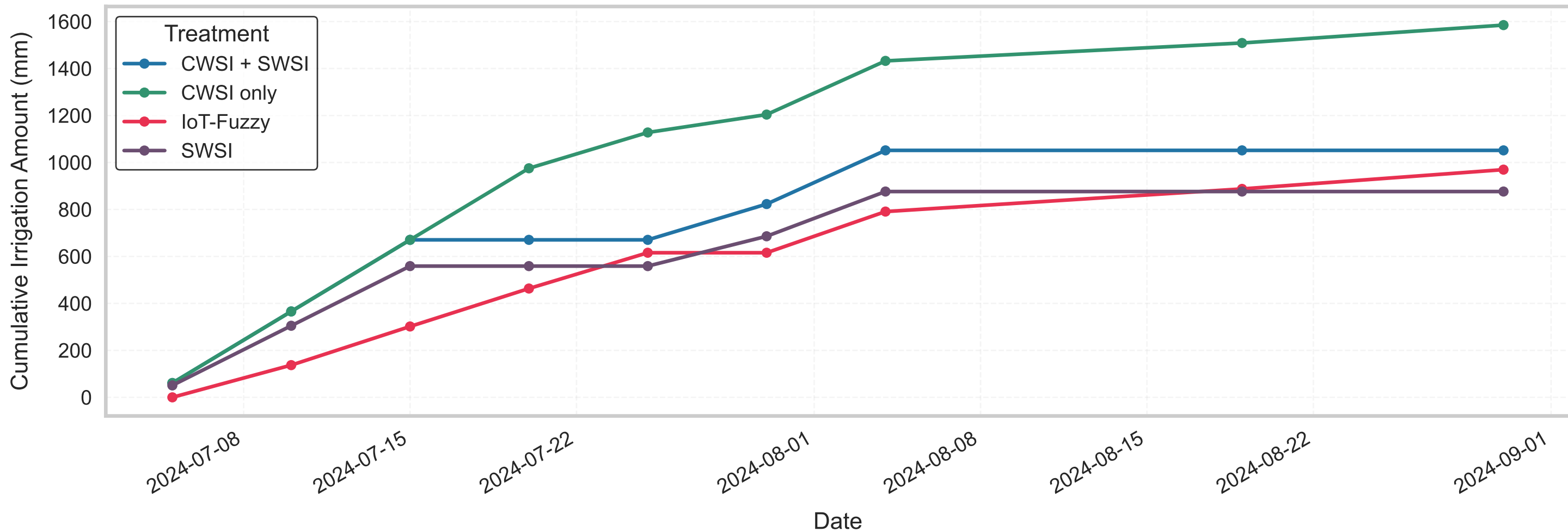
**Figure 8: Monthly Stress Index Distributions**  
**Monthly Stress Index Distributions Across Treatments**



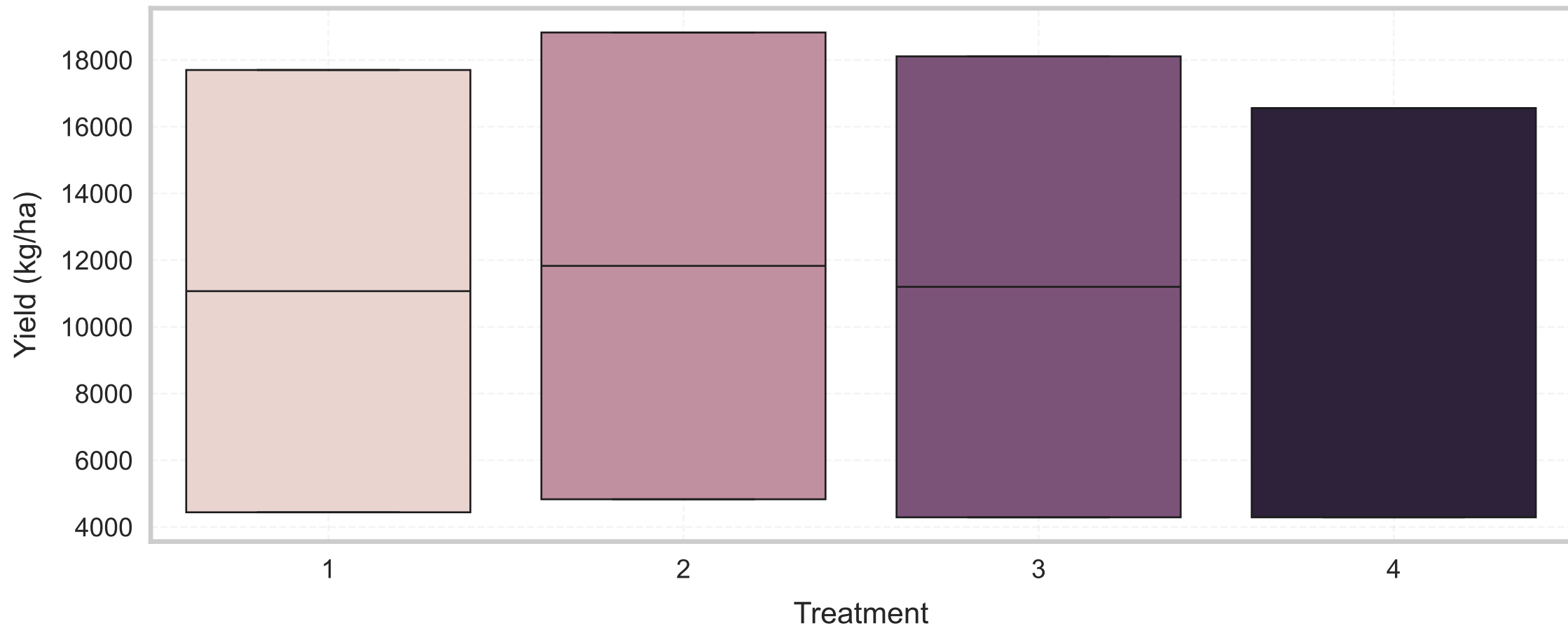
**Figure 9: Irrigation Application Patterns**  
**Daily Irrigation Amounts by Treatment**



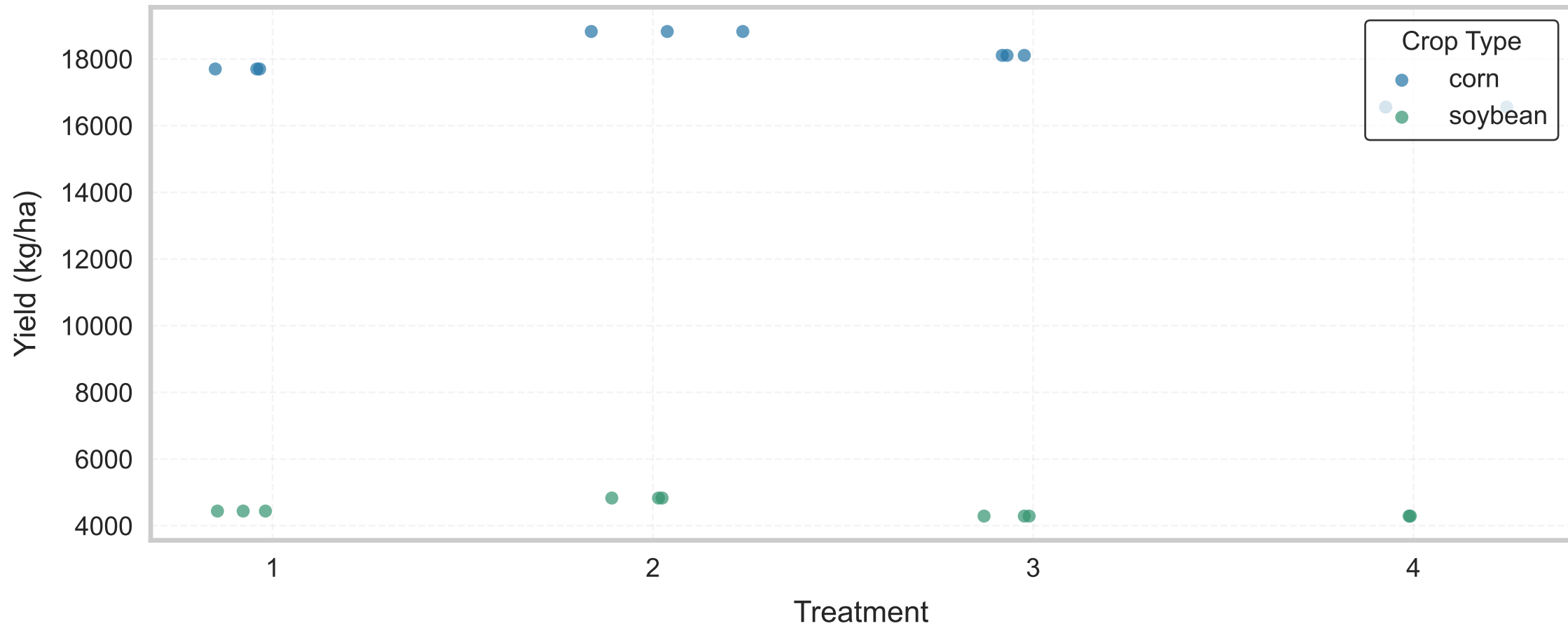
**Figure 9: Irrigation Application Patterns**  
**Cumulative Irrigation Amounts by Treatment**



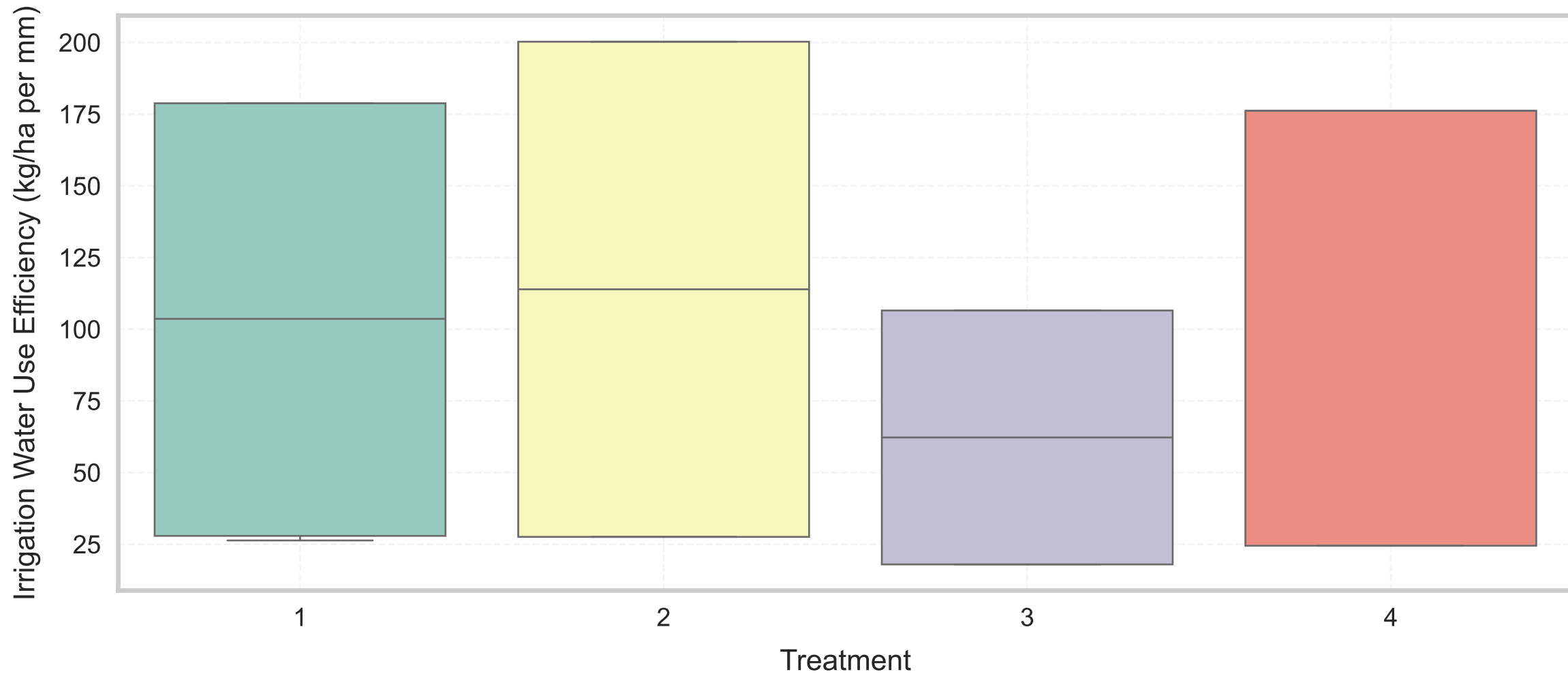
# Yield Distribution by Treatment



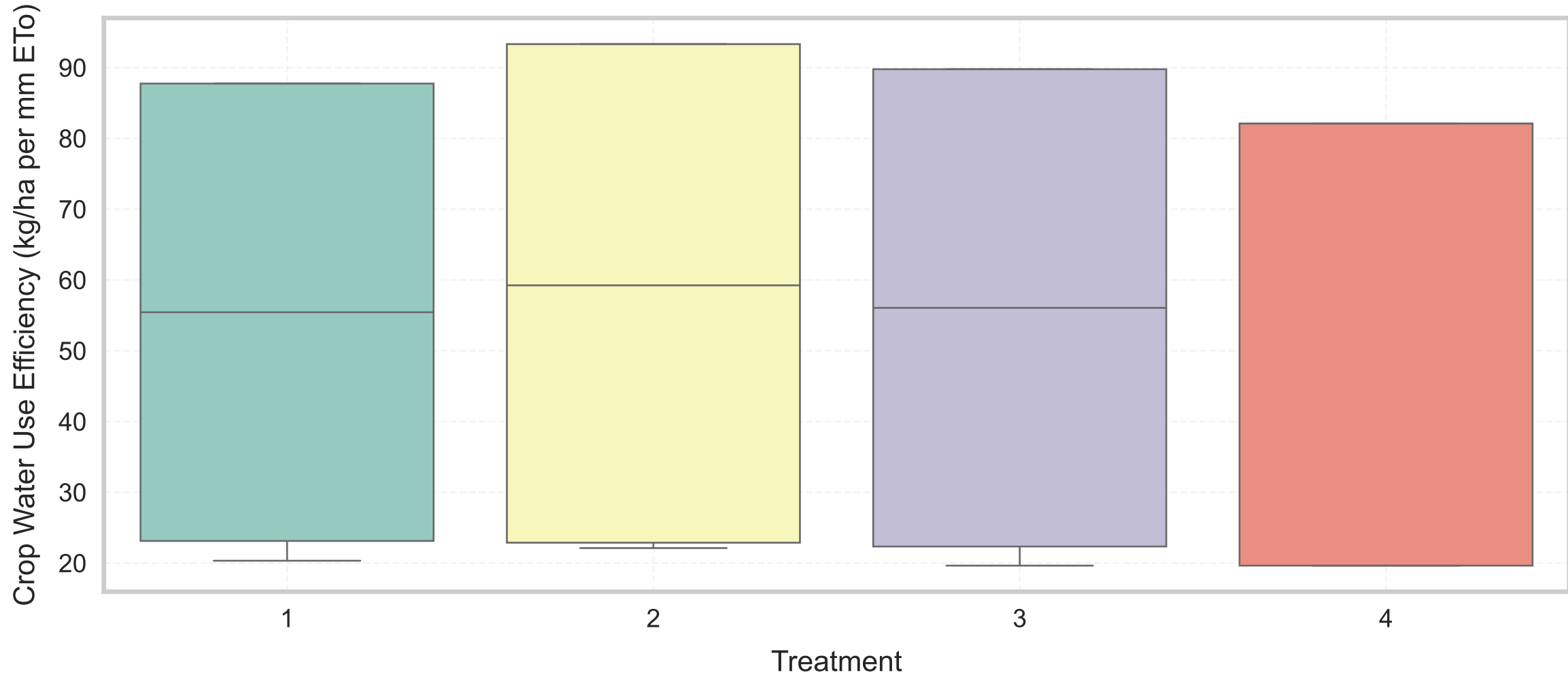
# Individual Plot Yields by Treatment and Crop Type



**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**

