Figure 3: Seasonal Weather Patterns and Environmental Variables
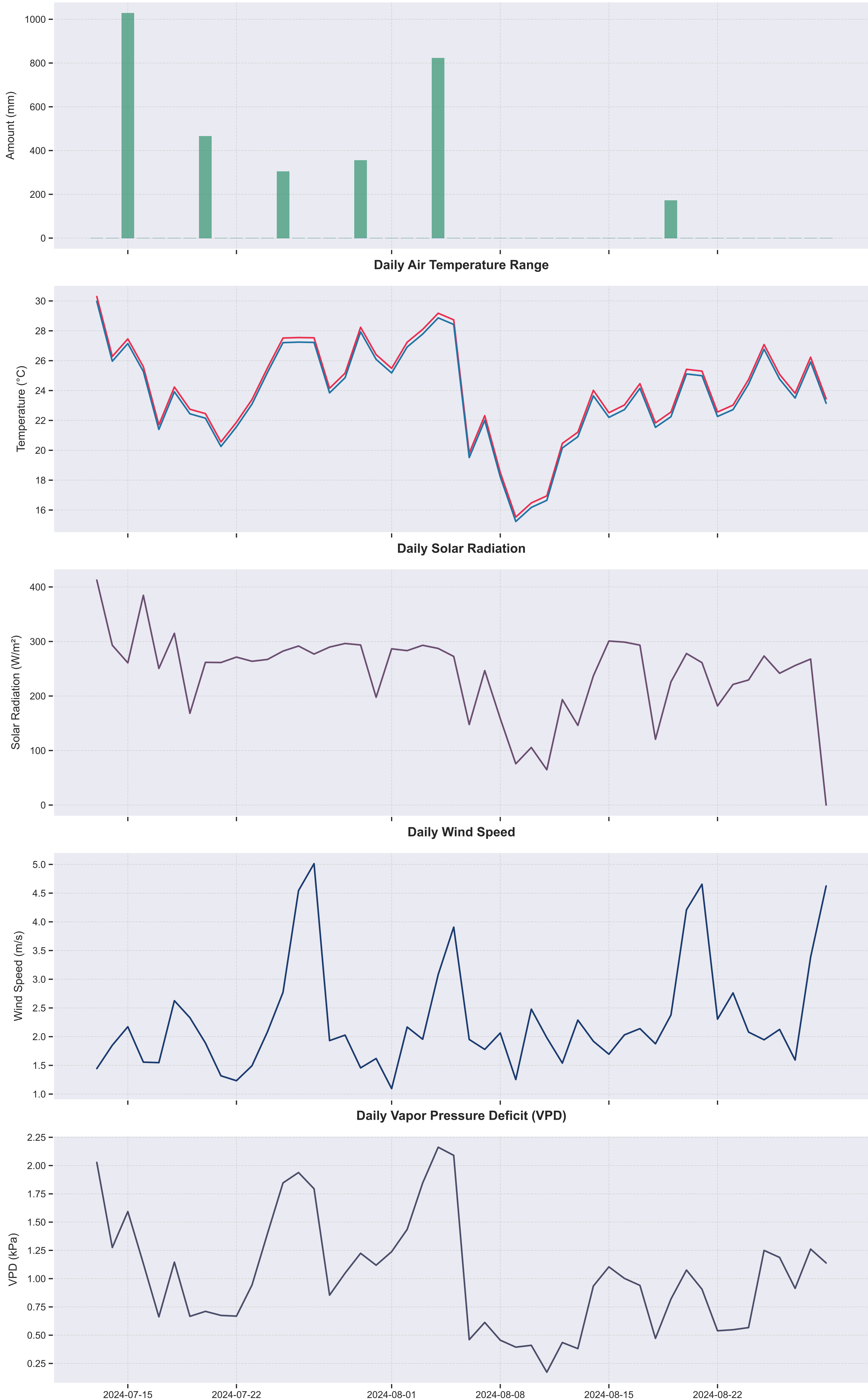
Figure 4: CWSI Implementation Analysis
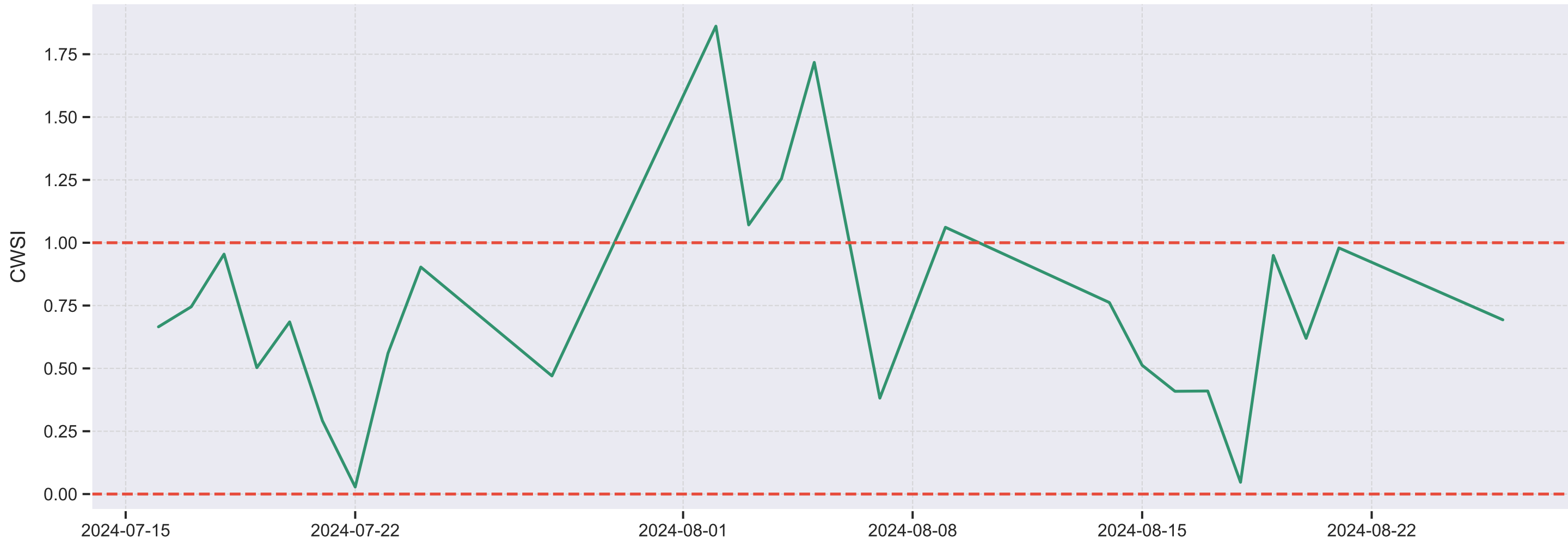Daily CWSI Values for Corn

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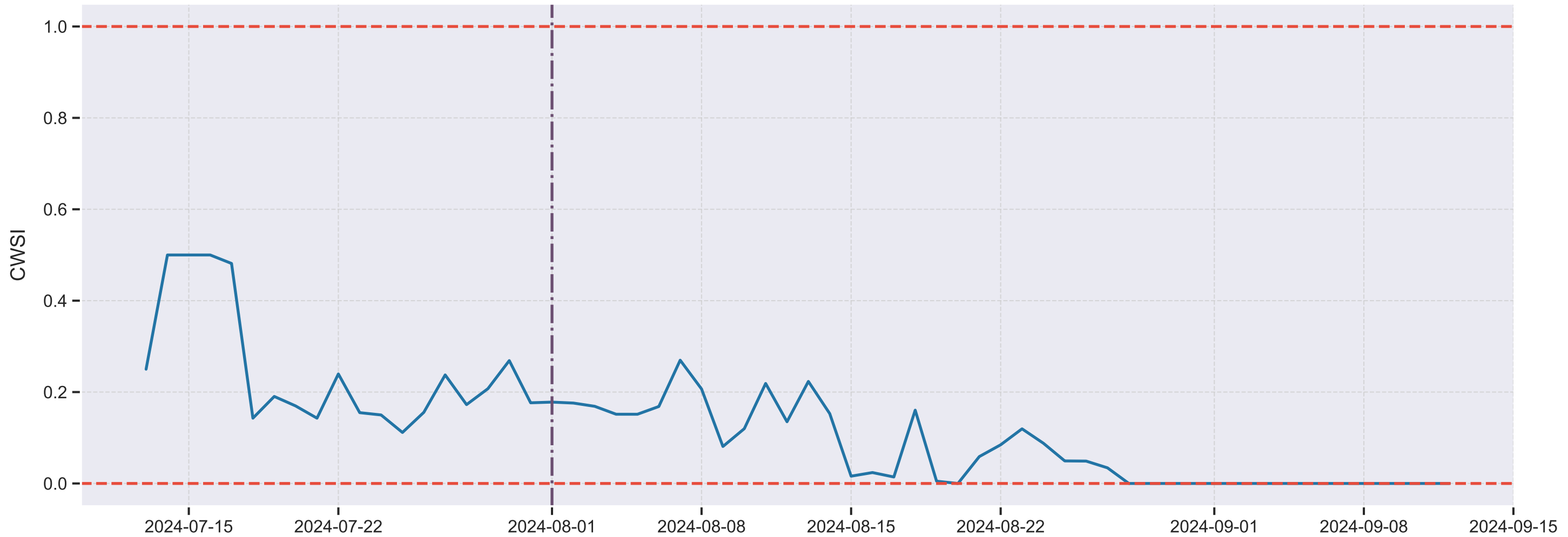
Daily CWSI Values for Soybeans

Figure 4: CWSI Implementation Analysis
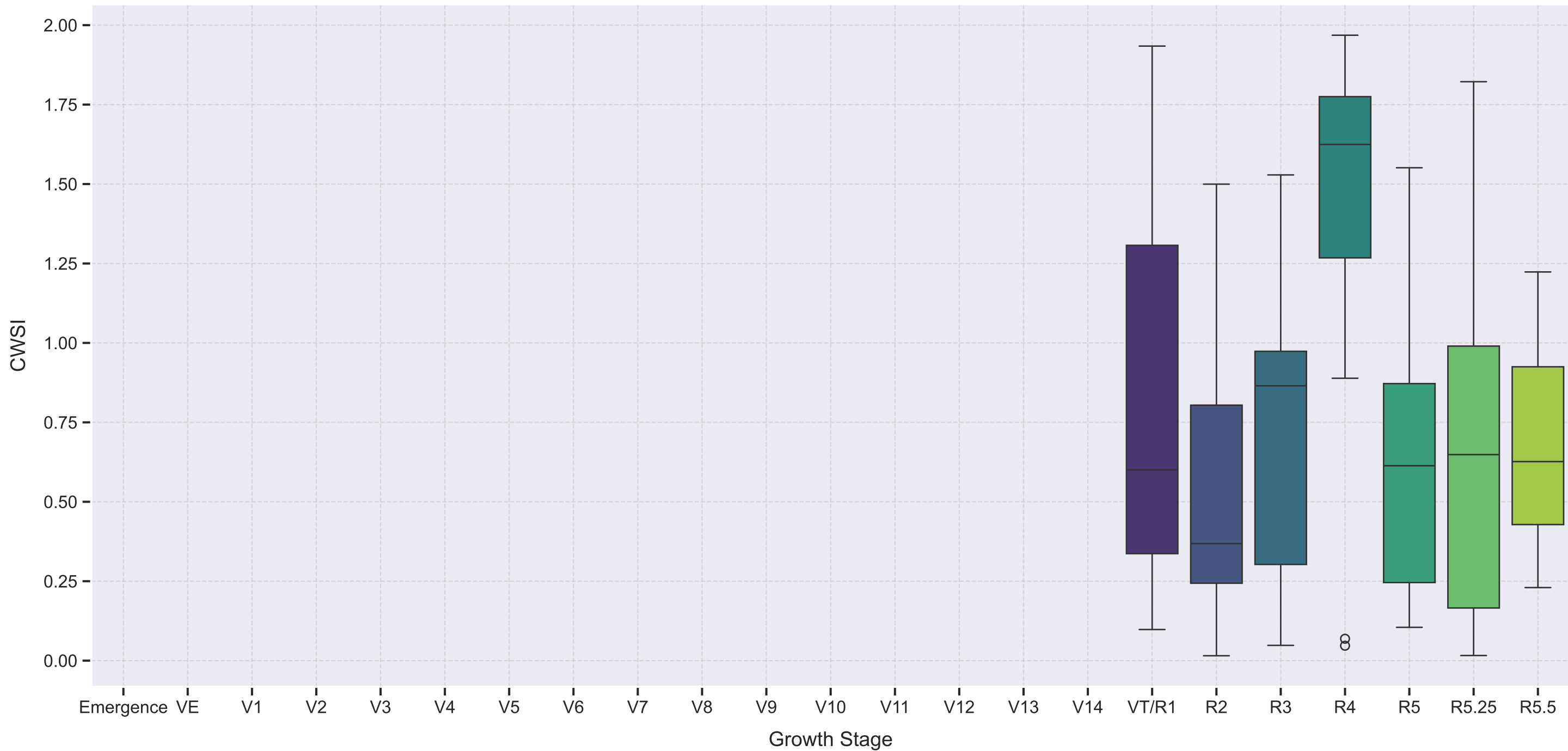## CWSI Distribution by Growth Stage (Corn)

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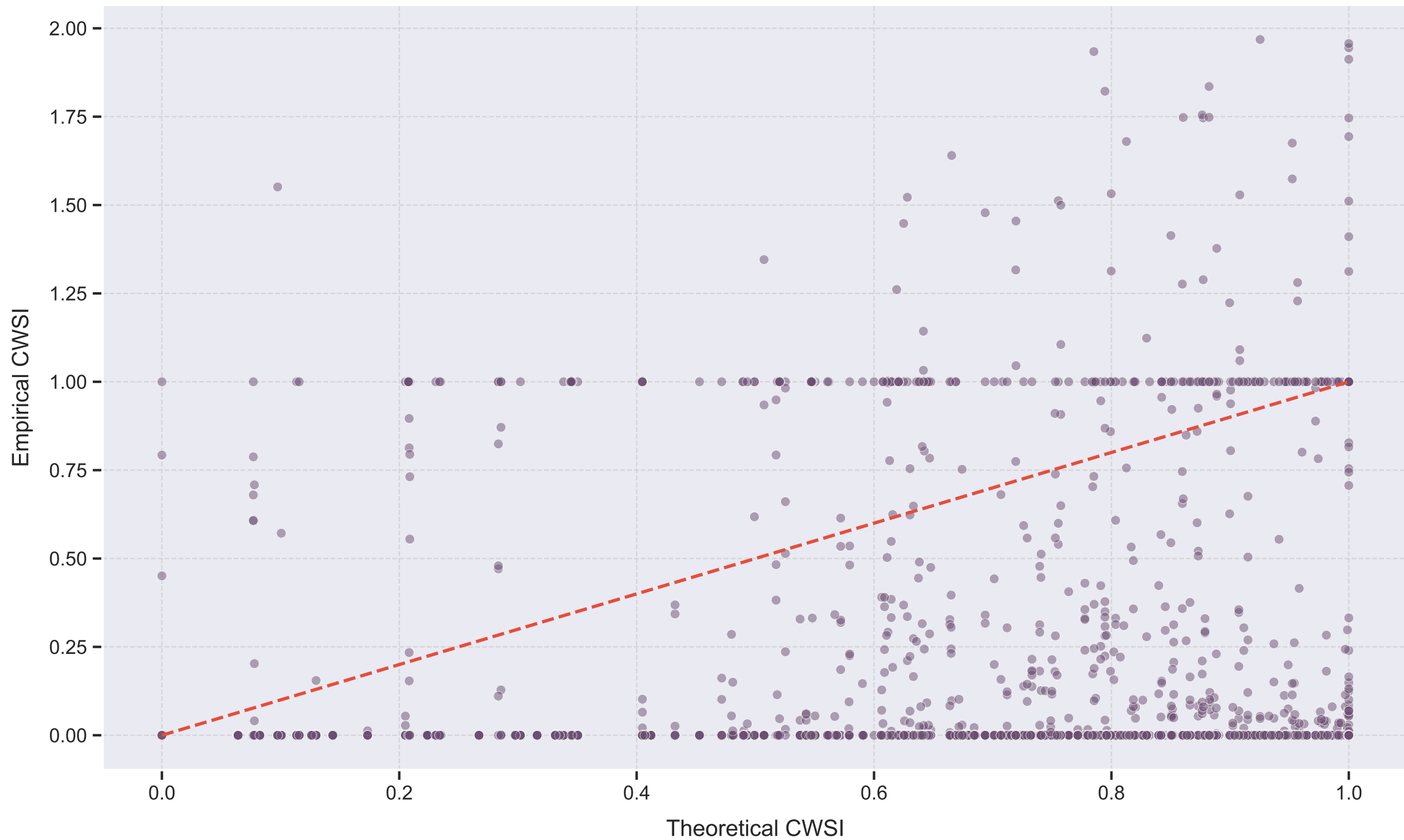Comparison of Theoretical vs Empirical CWSI

Figure 5: Soil Moisture Monitoring and SWSI Calculation
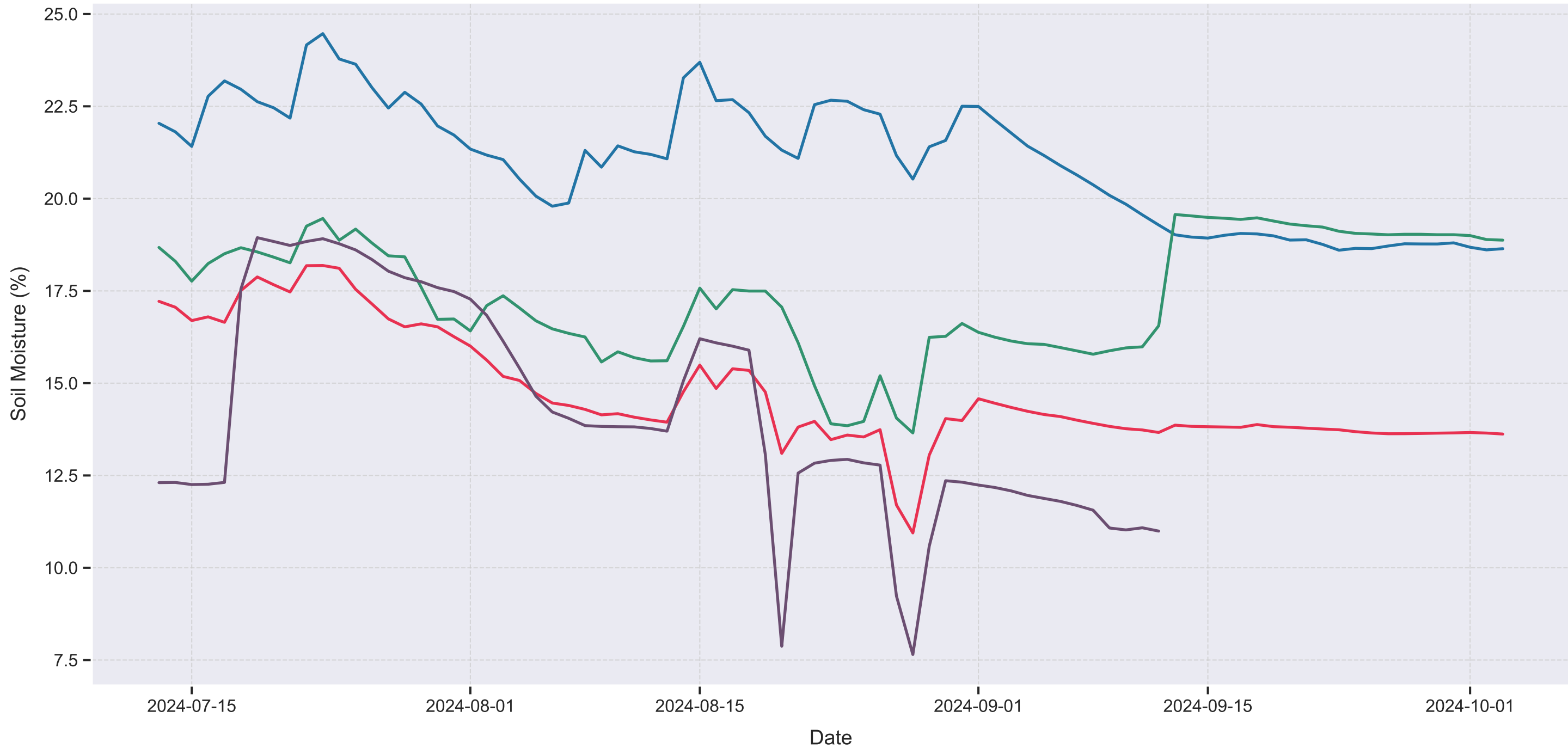
Soil Moisture at Different Depths Over Time

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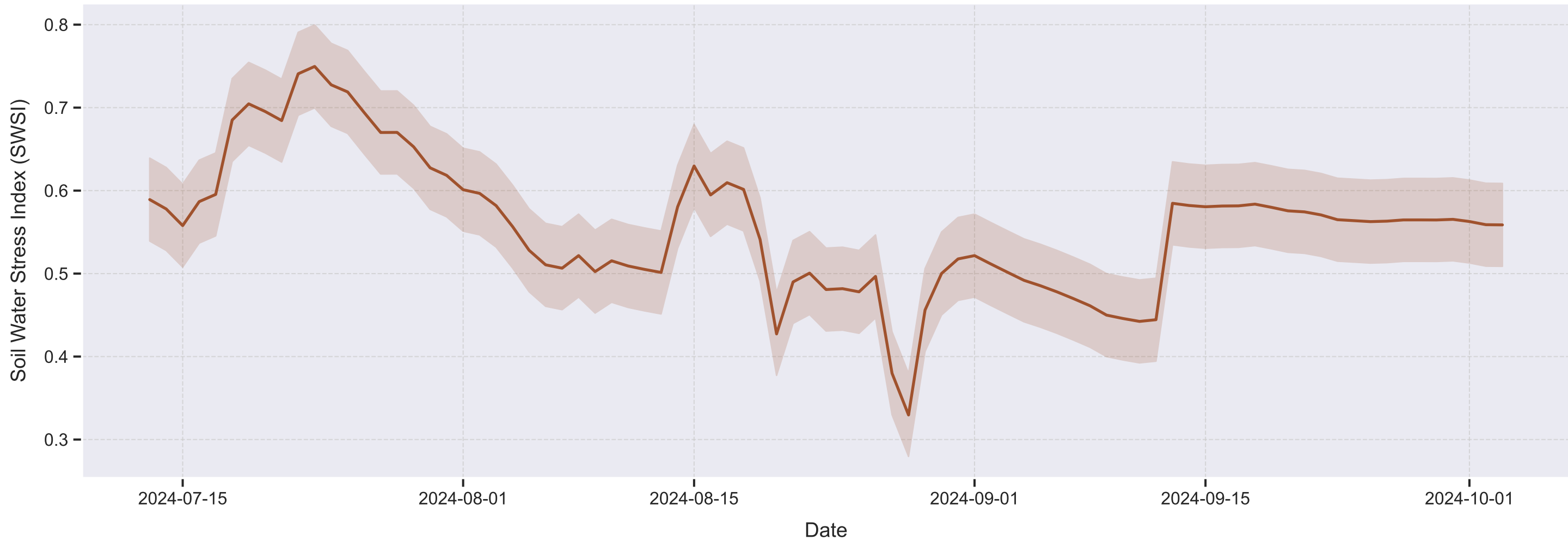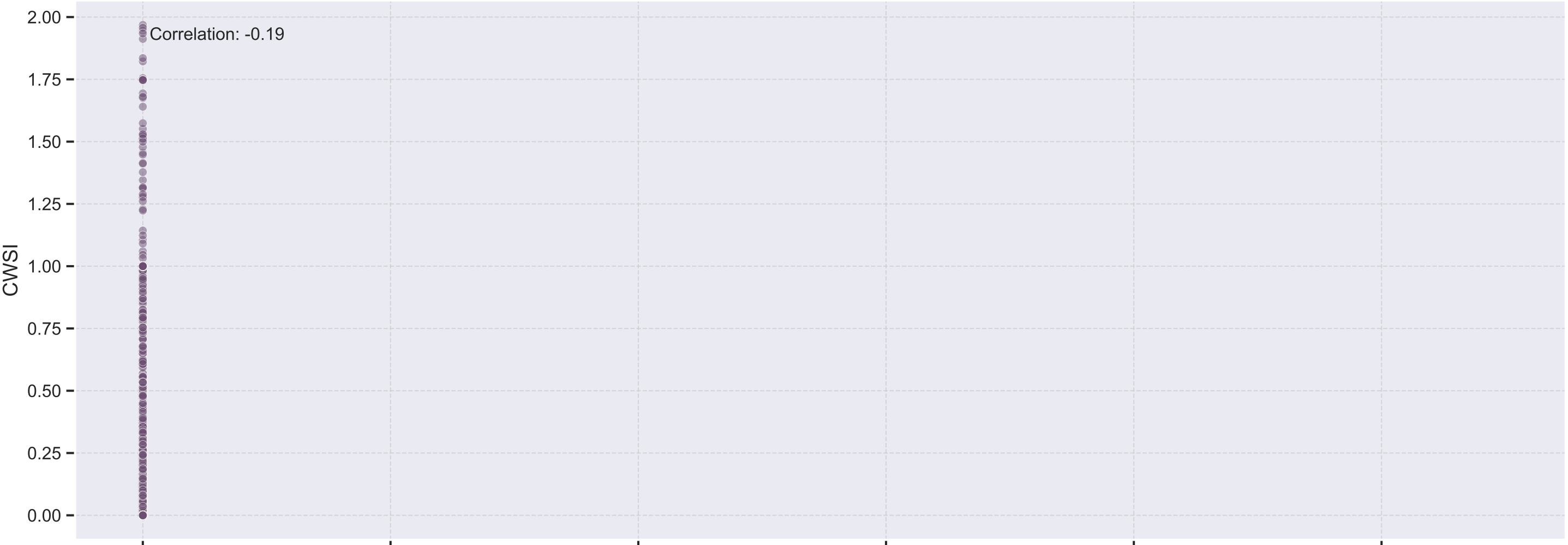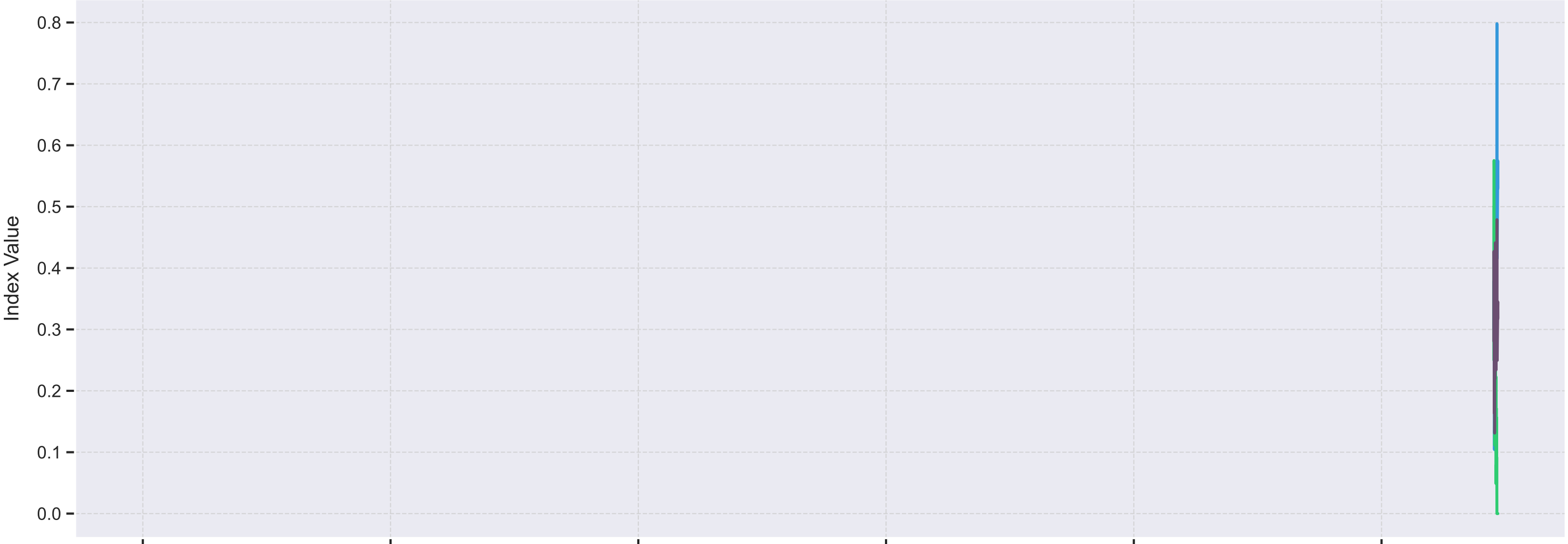
Soil Water Stress Index Over Time

Figure 6: Combined Index Analysis and Weighting System

Correlation between SWSI and CWSI

Correlation: -0.19

Time Series of SWSI, CWSI, and Combined Index

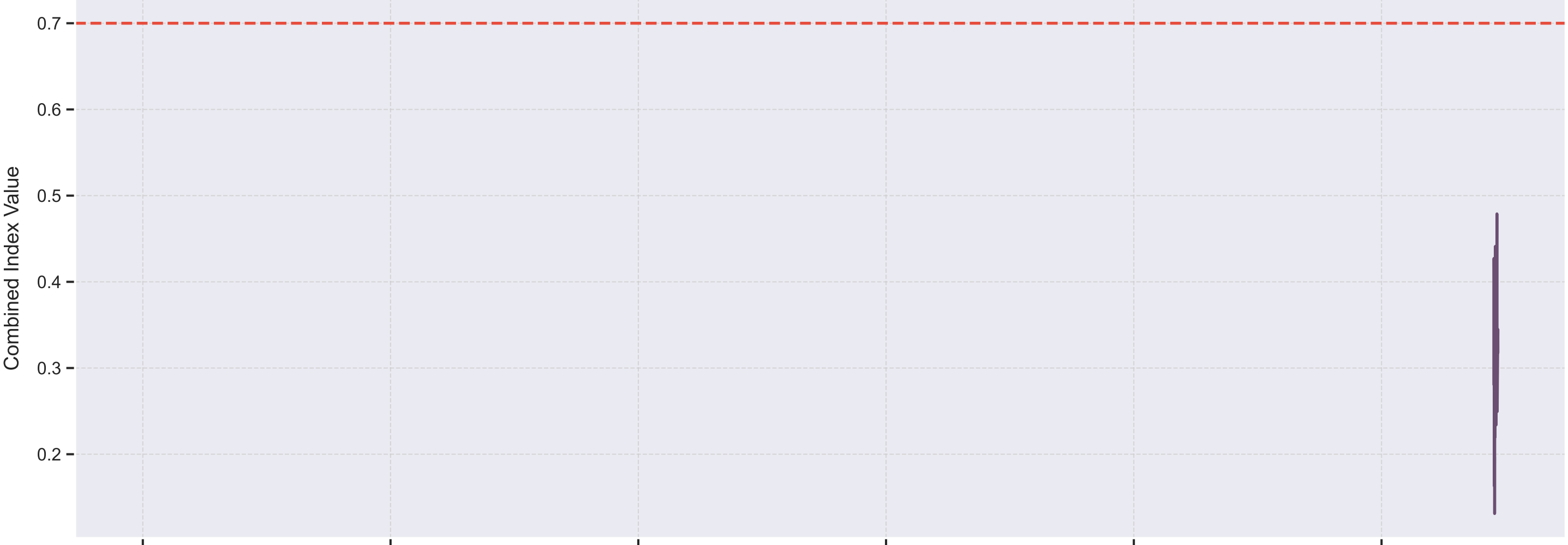## Irrigation Decision Threshold Based on Combined Index
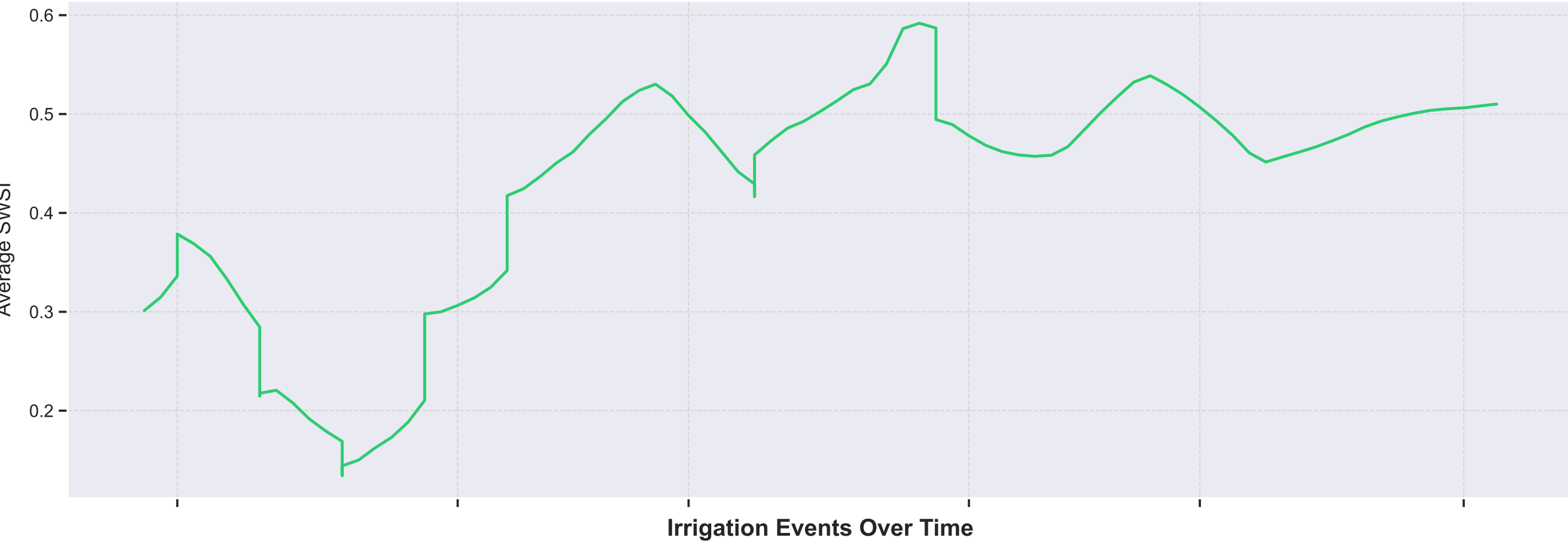
Figure 7: System Response Analysis
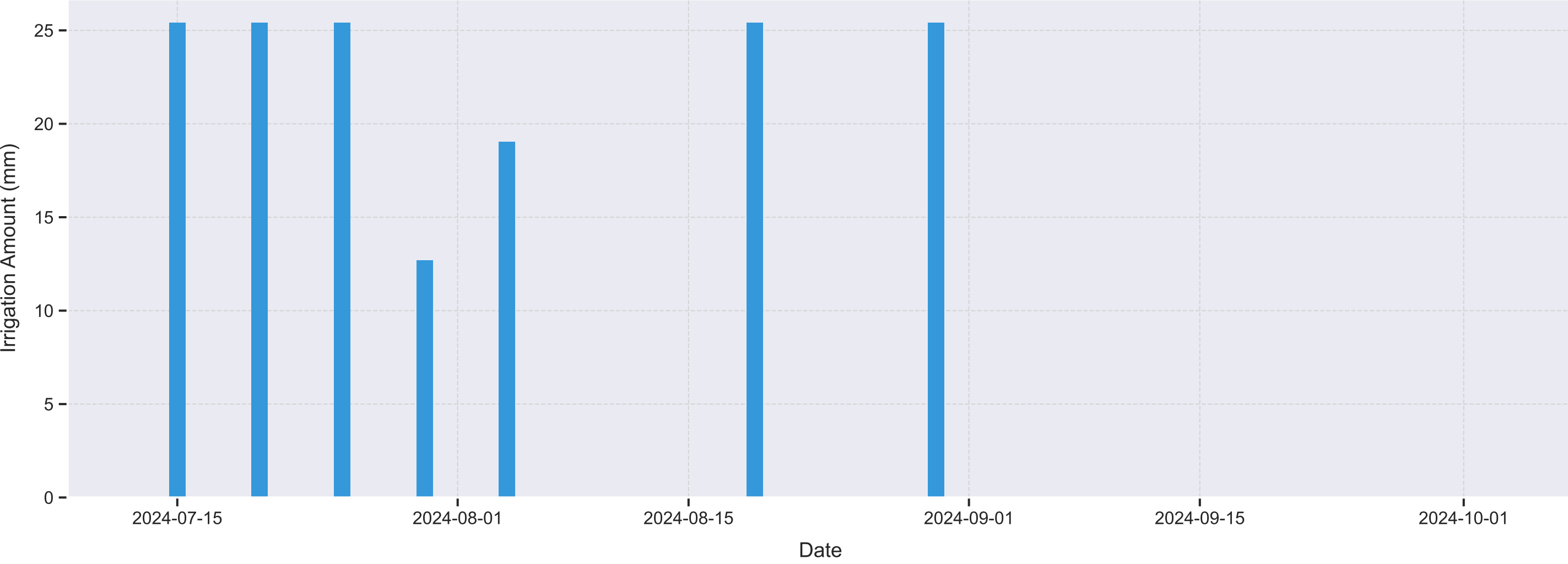Canopy Temperature Response to Irrigation/Rainfall
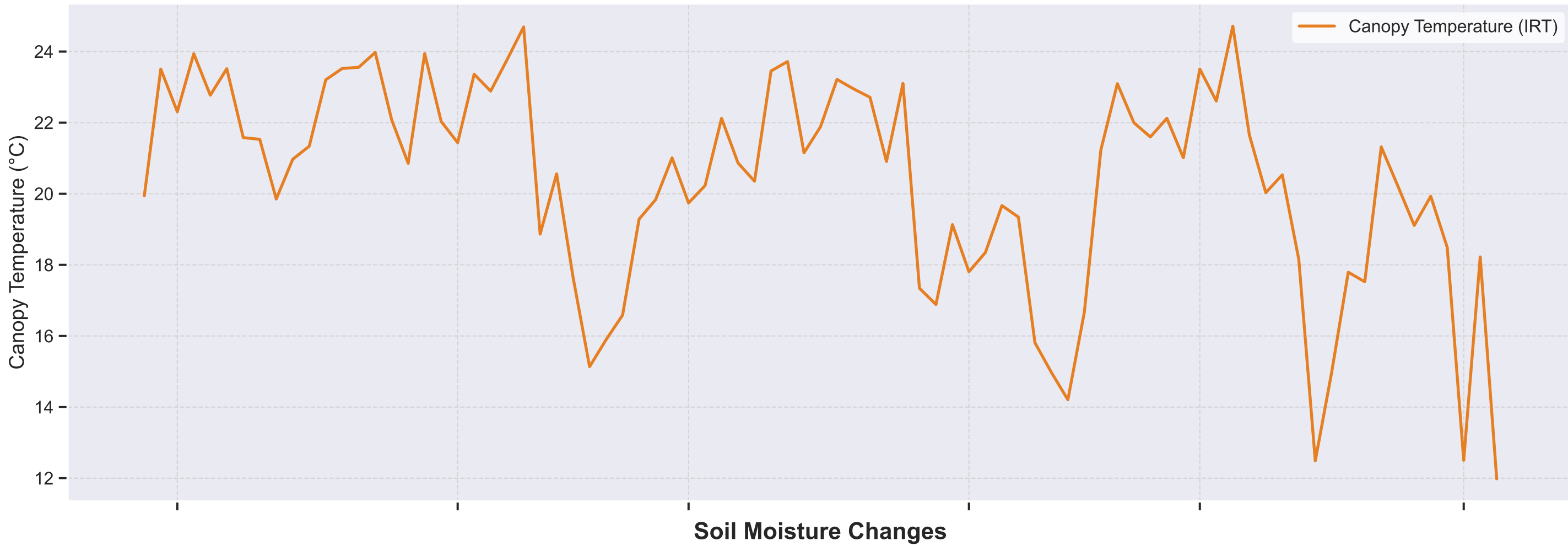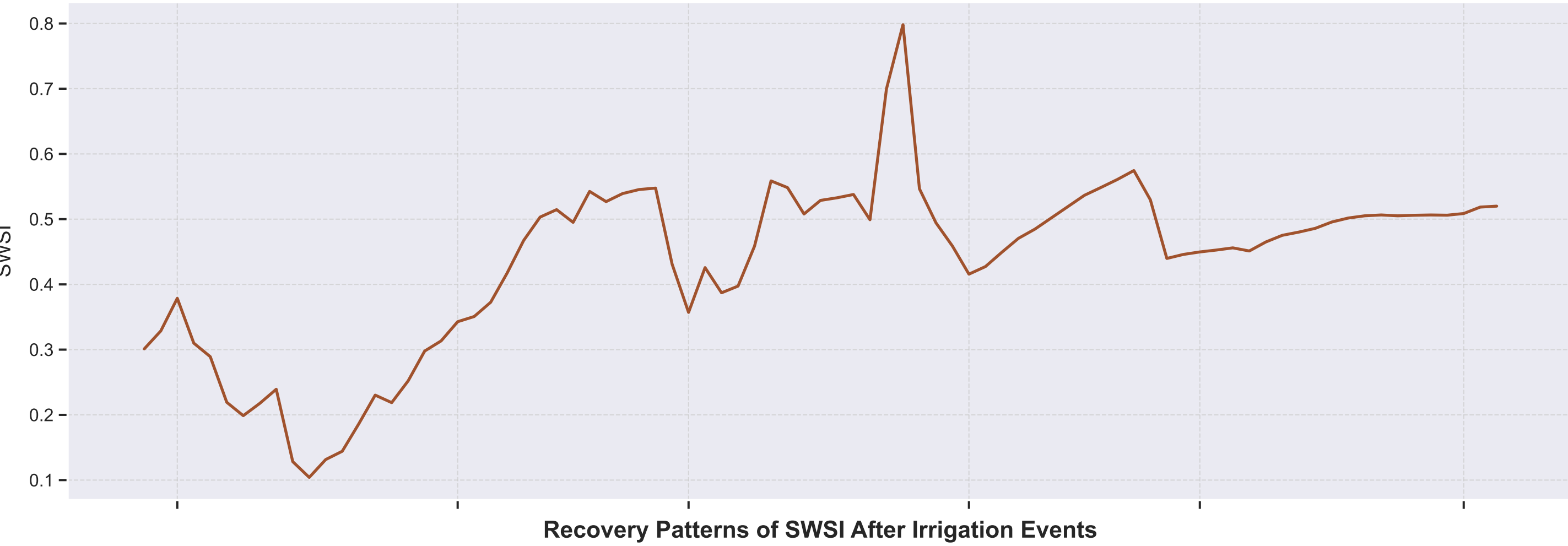
Figure 8: Monthly Stress Index Distributions

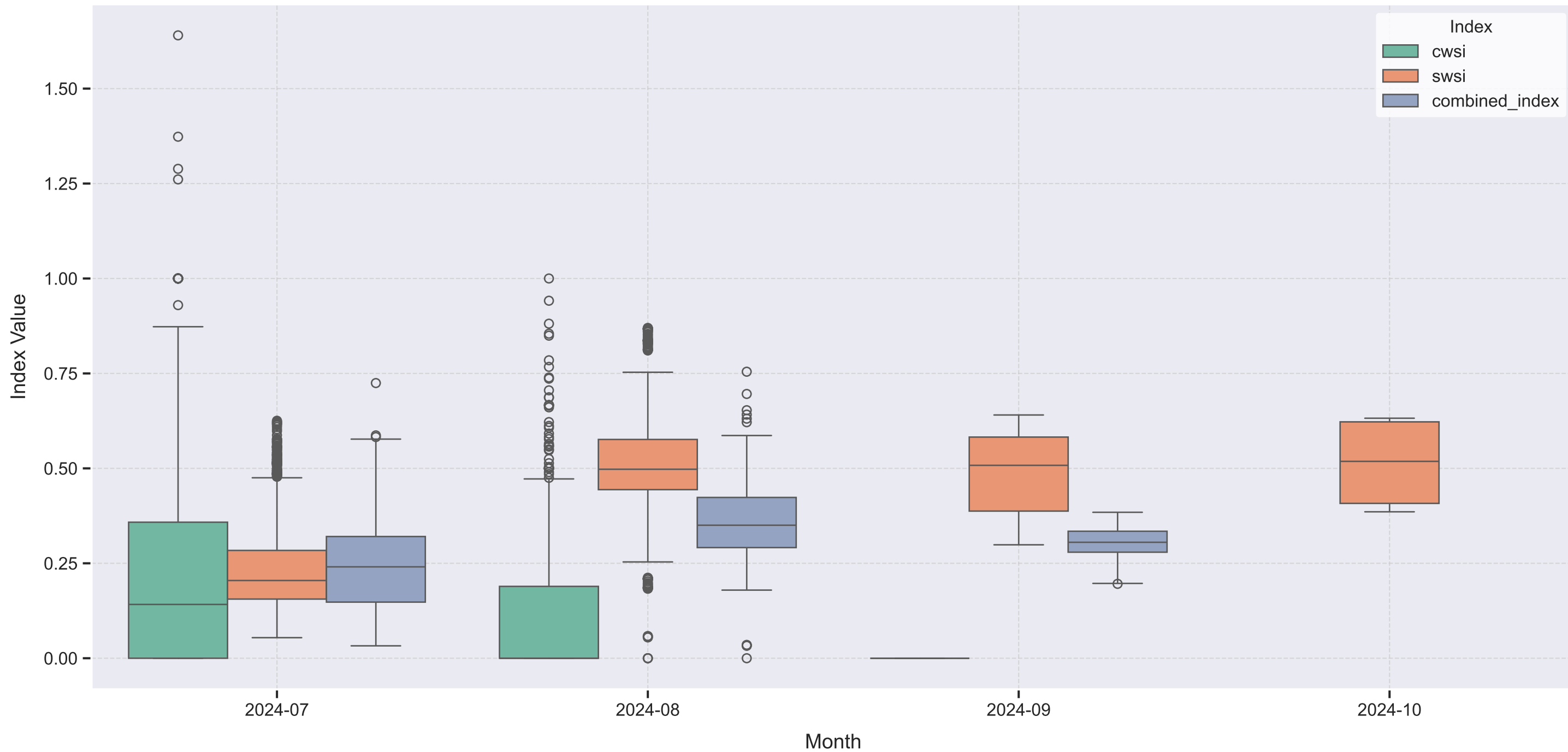Monthly Stress Index Distributions Across Treatments

Figure 9: Irrigation Application Patterns
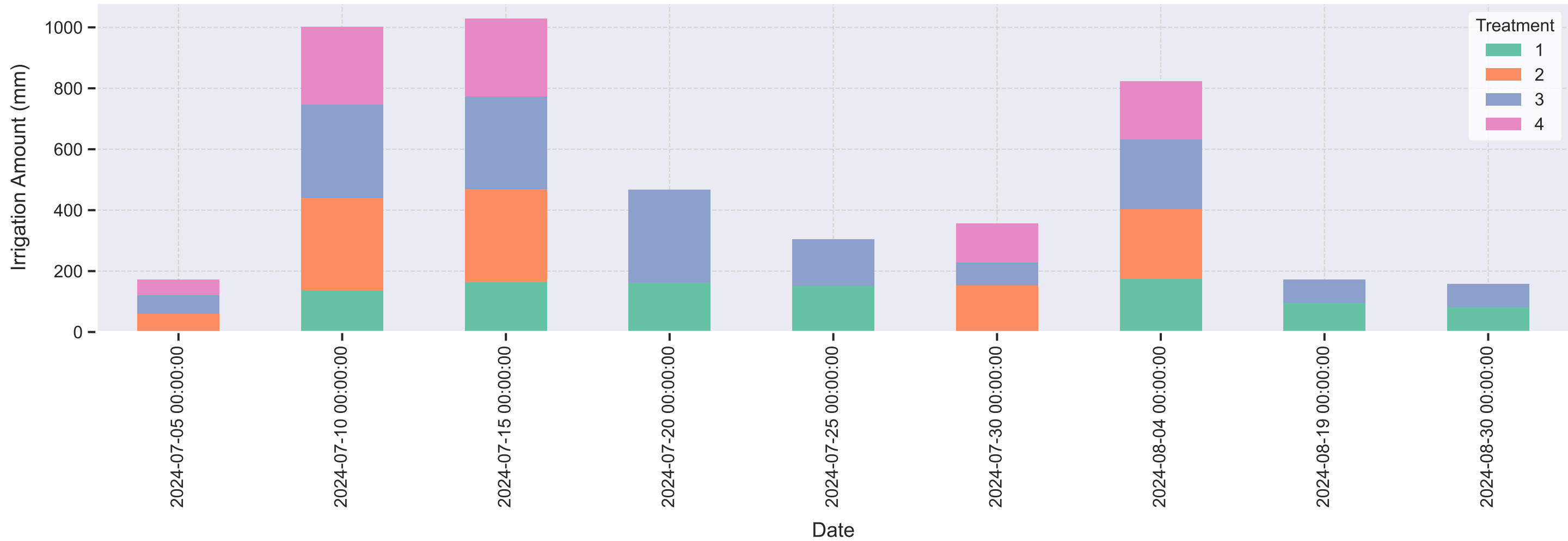Daily Irrigation Amounts by Treatment

Figure 9: Irrigation Application Patterns
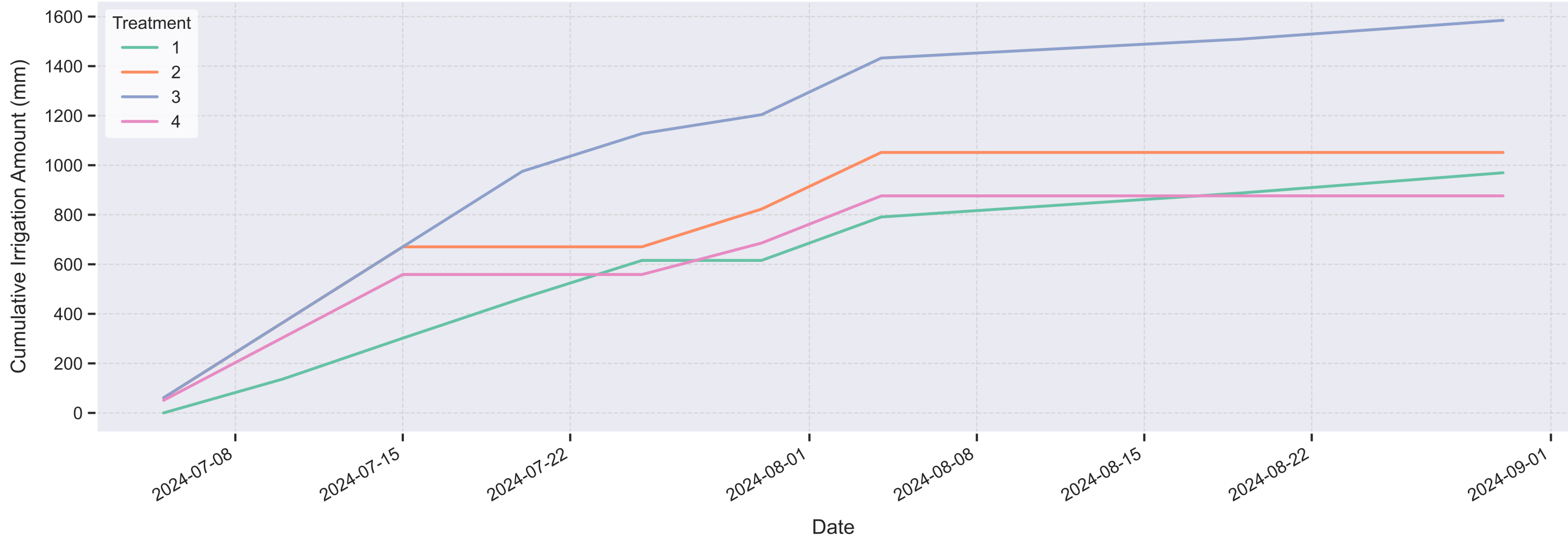Cumulative Irrigation Amounts by Treatment

Figure 10: Yield Distribution Analysis
Yield Distribution by Treatment