Plot 1 Irrigation Optimization Plan

Created By: Ctrl + Alt + Elite

Week: 2024-10-31 - 2024-11-07

Irrigation Amount:

This week we reccomend you use 0.91mm of water

Summary:

To determine the optimal irrigation amount for this week, we utilized a combination of historical weather data, soil moisture levels, and crop water requirements. Our predictive analytics model analyzes patterns in temperature, humidity, and precipitation forecasts to estimate the expected water needs for your specific plot. By integrating these variables, we can accurately predict the irrigation amount necessary to maintain healthy crop growth while minimizing water waste. This week's recommendation of 0.91mm is tailored to ensure that your crops receive the precise amount of water they need based on the latest weather insights.

The weather conditions are:

- Day 1: High - 96.3f, Low - 66.6f, Total Rain (mm) - 0.53, Humidity - 27, Weather - Partly cloudy
- Day 2: High - 92.6f, Low - 65.1f, Total Rain (mm) - 0.0, Humidity - 25, Weather - Sunny
- Day 3: High - 91.2f, Low - 68.7f, Total Rain (mm) - 0.0, Humidity - 28, Weather - Sunny
- Day 4: High - 92.7f, Low - 67.4f, Total Rain (mm) - 0.01, Humidity - 38, Weather - Sunny
- Day 5: High - 86.7f, Low - 61.6f, Total Rain (mm) - 0.0, Humidity - 45, Weather - Sunny
- Day 6: High - 93.0f, Low - 64.1f, Total Rain (mm) - 1.27, Humidity - 48, Weather - Sunny
- Day 7: High - 93.9f, Low - 67.4f, Total Rain (mm) - 0.04, Humidity - 47, Weather - Partly cloudy

Cost and Energy Benefits:

This optimization plan will save you $191.76. The previous amount of gallons used is 1121.39, this approach asks for 1020.47 gallons of water

This optimization plan will save the average Kansas farmer $150899.47. The previous amount of gallons used is 882453.03, this approach asks for 803032.26 gallons of water

This optimization plan will save you 1.51 killowat-hours in energy

This optimization plan will save the average Kansas farmer 1191.31 killowat-hours in energy