

# Effect of Photosynthesis on Plant Water Consumption

Our apricot grower optimized irrigation in their orchard, reducing water consumption while improving efficiency.

In the previous season, **irrigation lasted an average of 8 - 8.5 hours**. After conducting analyses and implementing optimizations, the **irrigation duration was reduced to 6 hours**. By accurately analyzing root water uptake and moisture index, water was supplied only as needed, preventing unnecessary water usage.

Thanks to this optimization, the farmer **achieved 25% water savings**, significantly reducing irrigation costs. Additionally, the irrigation schedule was adjusted to align with **the plant's photosynthesis and root activity, contributing to healthy plant development**.

