

5 ways to increase irrigation water efficiency



With increasing water demands and population growth, it's becoming more and more critical to implement water conservation methods that save time, money, and promote environmental sustainability.

To help you irrigate more efficiently, we've compiled some tips that can help you save water:



1 - Consider drip irrigation

Because drip irrigation systems are installed to directly water the roots of the crop, they dramatically reduce evaporation that occurs with spraying systems, **saving up to 80% more than conventional systems.**

To further boost efficiency, install timers that schedule watering during cooler times of day to ensure even less evaporation.



2 - Schedule based on specific crop demand

By creating an irrigation schedule based on soil type, precipitation, crop requirements, and moisture retention, you can ensure the most effective application rates and durations.

The key to optimal efficiency is to monitor and track soil moisture, weekly precipitation rates, and irrigation system output to develop a precise weekly schedule. Recheck moisture periodically and correct as necessary.



3 - Use cover crops

During fallow times of the year, you can improve the soil and reduce water loss caused by runoff and erosion by planting temporary crops.

By building healthy soil during the off-season with the organic matter from cover crops, you will **increase water-holding capacity and even crop yield by 10-15%.**



4 - Implement conservation tillage

Partially tilling soil to leave behind at least 30% crop residue instead of deep plowing not only minimizes erosion, but also increases water absorption and reduces evaporation. To conserve soil as much as possible, conservation tillage practices include minimum to no tillage or strip tillage.



5 - Choose the right water filtration system

Water filtration reduces irrigation system clogging and ensures application uniformity. To conserve water and save money, select the right filtration system for your irrigation approach. Consider using a self-cleaning, screen-type filter. The cleaning mechanism in this type of filter is the most efficient available – utilizing **8 times less water** for cleaning than a sand media filter system while providing equal irrigation system protection.



Interested in achieving irrigation water efficiency with Amiad's Filtomat?

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