



Torpedopot™ is highly efficient and requires 95% less water per acre when compared to conventional farming methods. Its patented water technology substantially reduces surface evaporation. The system allows water and nutrients to flow into the planter and directs it to the plant's root system.

Darral Addison, Founder and CEO at  
[Www.torpedopot.com](http://www.torpedopot.com)  
[Www.agriculturalblockchain.com](http://www.agriculturalblockchain.com)

# Why are you watering your plants

Most people learned how to water plants from their parents. They carry a bucket of water and pour it at the base of the plant. If you ask them, why you are watering this way, most would say this is how it has always been done. There is no doubt that watering helps plants transport essential nutrients and that water is one of the main ingredients for making chlorophyll. Water, carbon dioxide, and nutrients, are essential ingredients used by plants to prepare food. However, the primary response for why we water our plants are for its beauty and food. We love looking at lush and mysterious green plants with alluring flowers. It captures our fancy. The lushness requires that we give most plants a lot of water. Without proper access to water, we would not be able to feed our families and grow our communities.



Figure 1 Lettuce

One of the problems we face by watering our plants is that every time we water them, we attempt to kill them. Yeah, that is right! Take a trip to almost any farm in the world, and you will find out they all have the same watering methodology. Water is routed from its source using some form of natural or mechanical means; truck, power plants, horse, mule, aqueducts, water tank, or deep well. When the water arrives at its destination, every ounce of it is applied to the leaves or the base of the plant. Giving water to plants in this manner diffuses their ability to exhibit consistent pharmacological properties.

Conventional watering kills plants because most watering schedules are driven by the growers' time, resources, need for profit, and other deadlines. This schedule always benefits the grower not the plant. Plants do not want to be watered on a schedule; they want continual access to moisture. There is a difference between immersing a plants root system in water (hydroponics), placing them near a stream of water (spillway), metering water (drip irrigation), and giving them access to moisture (Torpedopot™). Torpedopot™ revolutionizes watering because it allows you to give plants access to moisture when they want it and not based on a schedule.

Only a small amount of water taken up by the roots is used for growth and metabolism. The remaining 97–99.5% is lost by transpiration and guttation. Under watering causes, the plant's transpiration processes to collapse and overwatering, drowns your plant and rots the roots.

Continuously wet soil will not have enough air pockets, and the roots cannot breathe. Torpedopot™ gives you the ability to customize your watering schedule for your plants. It allows you to set the right moisture content in



Figure 2 Primrose

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the soil that your plants love. Torpedopot™ flushes the plant's root system with moisture. Water is absorbed by root hairs that are in close contact with the thin film of water surrounding the soil particles. Torpedopot™ gives plants access to the right amount of moisture that compliments the plants physiological properties. This watering methodology allows plants to achieve optimum growth to support photosynthesis, respiration, plant nutrition, and plant hormone functions.

Drip Irrigation can not evenly distribute micro-nutrients to plants. Crystallization due to evaporation and soil filtration makes it challenging to distribute dissolved solids. With drip irrigation, dissolved solids concentrate on the surface of the soil and have a delayed release that carries over into additional feeding cycles, making it extremely difficult to measure the nutrients effectiveness. Exposing nutrients and water to air is a dangerous combination. In one drip irrigation study, a total of 25 fungi isolate and 121 bacterial strains were isolated from water samples collected from drip irrigation systems in tomato greenhouses. Drip irrigation is inefficient and is no longer a practical tool for feeding plants.

Torpedopot™ carries nutrition directly to the plant's root system to ensure its health throughout the plant's lifecycle. You can adjust the flow of water and nutrients to accommodate your plant's needs.



Torpedopot™ provides an environment which allows plants to achieve their full potential. Most plants are not happy in their environment. Existing growing conditions prohibit plants from expressing their vibrant colors and complex behaviors. Most plants are struggling to optimize the right amount of sunlight, shade, water, bacteria, fungus, rain, etc. Torpedopot™ has been designed to reduce the shock of not having a luscious plantation or a perfect growing environment. Torpedopot™ optimizes the conditions in which plants can achieve their full potential. Torpedopot™ is scientifically designed to grow your plants for you! [www.Torpedopot.com](http://www.Torpedopot.com)