



GROWER REVIEWS FROM THE FIELD

“We wouldn’t have moved to drip irrigation if it weren’t for FlowControl. Standard drip tape just couldn’t provide the results we needed on the slopes of our rolling and uneven terrain. FlowControl not only gives us the uniformity we need, but we’ve been able to get longer runs as well. Now we get the performance and the water- and energy-efficiency we need – that’s what we like about it.”



Nolan Masser

Red Hill Farms Inc. | Pitman, PA

FLOWCONTROL™

IN PRAISE OF **FLOWCONTROL™**

Growers know that irrigating on uneven, sloped, or hilly terrain can be difficult. Getting a healthy, uniform crop is tough because you tend to over-water at low elevations and under-water at high elevations. Too much water can create problems, such as plant disease, and not enough water can be even worse – leaving you with inconsistent and weak yields.

In the past, growers were forced to either accept the poor uniformity and lower yields, avoid the uneven areas altogether, or buy costly pressure-compensating driplines that limit growers' control over the system application rates. But now, as market demands, weather patterns, and resource availability change and become more challenging, you can no longer afford poor performance from your irrigation system.

Thanks to FlowControl™, you no longer have to.



CONQUER CHALLENGING TERRAIN

“We’ve seen firsthand how FlowControl helps increase yield and quality. Over the past two years, we have tested it and seen it significantly improve our crops’ health, especially in challenging terrain. FlowControl delivers a more uniform crop and higher yields in areas that were once impractical to farm. We’ve even reduced our pre-plant fertilizer costs, thanks to the improved uniform distribution it offers with fertigation. FlowControl’s benefits became especially apparent to us this year – during a major drought we were consistently able to achieve uniformity on long irrigated plasticulture rows.”



Trevor Hardy

Brookdale Fruit Farm | Hollis, NH



For years, growers have trusted Aqua-Traxx®, Toro’s original drip tape, for unmatched clog resistance, durability, and precision placement of valuable water and fertilizer. Standard drip tapes like Aqua-Traxx, give growers the flexibility to increase or decrease water flow rates, but provide moderate irrigation uniformity. The best applications for standard drip tapes are flat terrain or medium-length runs.

For growers with challenging terrain, pressure-compensating driplines made it possible to increase uniformity, quality, and yield on changing elevations. However, pressure-compensating driplines are only available in expensive, heavier wall thicknesses, are even more expensive at closer emitter spacings, and sacrifice growers’ control over their system application rates.

LONGER RUNS MADE EASIER

“The principal reason we use FlowControl is because our farm is not flat – a 5% to 10% slope. When we tried normal tape, the uniformity was not good. We tried splitting the lots and preparing the land better, but that didn’t work. The only thing that improved our uniformity was moving to FlowControl. When we did, we saw the benefits right away – the irrigation and crop growth was uniform, fertilizer-use was better, and we could get longer runs. Before, our maximum run length was 300 feet. With FlowControl we are running 500 feet, which allowed us to eliminate a submain!”



Bianca Pérez-Lizasuain

Peninsula del Rio | Guayanilla, Puerto Rico



New patented Toro® **FlowControl™** drip tape gives you the best features of a pressure compensating tape, and non-pressure compensating tape, more uniform irrigation for any terrain, and the flexibility to control the overall system flow rate. With FlowControl, you truly get the best of both worlds.

In addition, FlowControl is available in a wider range of thicknesses than pressure-compensating driplines – including more affordable 5/8-inch 6-mil and 7/8-inch 8-mil. With one price for any emitter spacing, you get the wetting pattern you want without paying a premium.

FlowControl lets you take control of your farming application and gives you the next level of uniformity, efficiency, and yield – wherever you farm.



DELIVER UNIFORMITY

“With standard drip tape, we had to use up to 2 extra submains to irrigate the whole field. With FlowControl, we’re getting longer runs so we can use just one submain. FlowControl is also giving us better uniformity – even in our steep sloping fields. Standard drip tape would under- or over-irrigate in areas.”



Greg Phillips

Oceano Packing Company | Oceano, CA



ADVANTAGE

1

MORE UNIFORM OUTPUT FOR ANY TERRAIN

Standard Tape

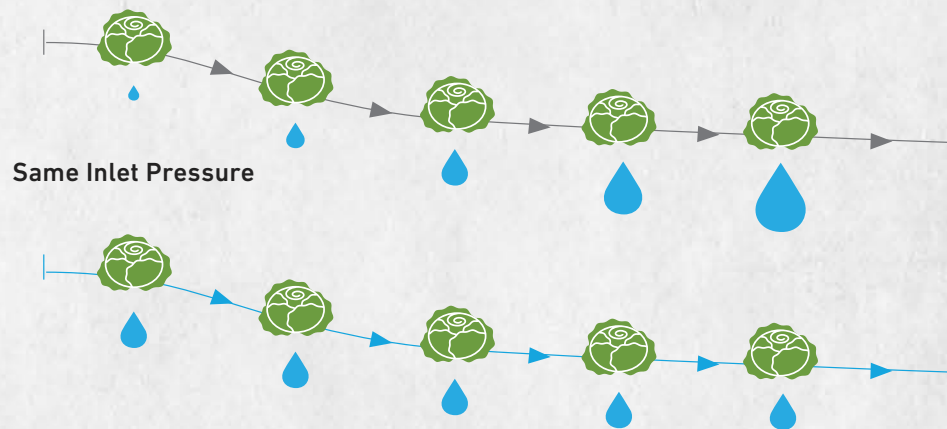
Standard tapes stress plants and reduce yield and efficiency by over- or under-watering as pressure changes throughout the run.

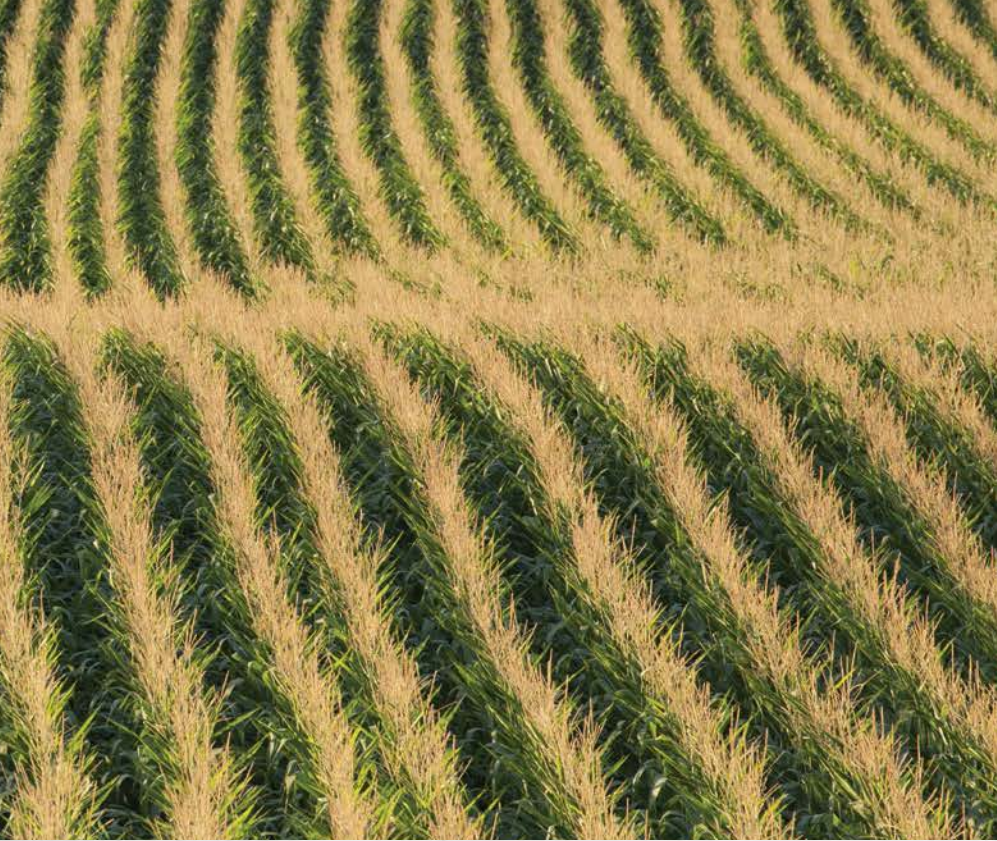
RESULT: Wasted water and fertilizer, stressed plants and reduced yields.

FlowControl™

Toro FlowControl gives you uniform output regardless of elevation changes. So now you can adjust the amount of water you give your plants on hilly terrain, and they'll all receive the same amount through our uniform delivery system.

RESULT: More uniform plants & higher yields even in hilly terrain that might otherwise be impractical to farm.





TAKE CONTROL OF YOUR FLOW

“FlowControl is an important new technology to provide a uniform application of water. The possibility of adjusting the flow with innovative drip tapes is an important feature that could contribute to increase the capacity and flexibility of micro-irrigation systems.”



Daniele Zaccaria

Agricultural Water Management Specialist, UC Davis | Davis, CA

ADVANTAGE

2

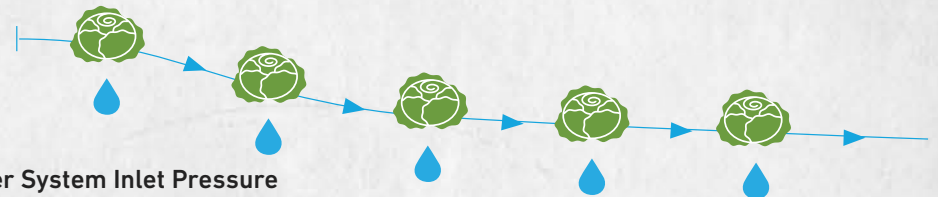
THE ABILITY TO CONTROL THE FLOW

FlowControl™

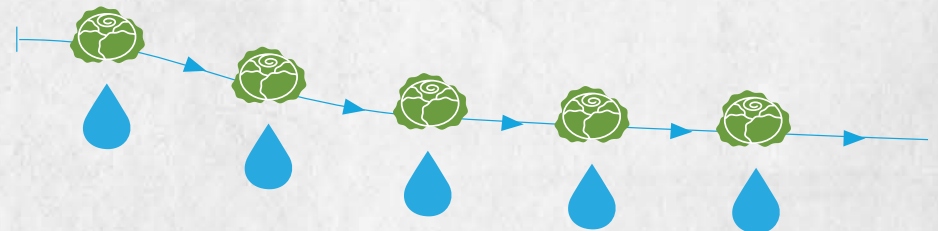
Toro FlowControl puts you in control of watering decisions. You control how much water your plants receive by increasing or decreasing the operating pressure — without sacrificing uniformity.

RESULT: More uniform delivery of water and fertilizer to the roots of your plants with the flexibility to control application rates.

Lower System Inlet Pressure



Higher System Inlet Pressure





MASTER YOUR WETTING PATTERN

“I have never seen such a fine wetting pattern under such conditions. In the past we would have had to feed the tape from each side into the swale in an attempt to improve the wetting pattern. This would be expensive and labor-intensive to provide bi-directional water application to a single zone.”



Jim Klauzer

Clearwater Supply | Ontario, OR



ADVANTAGES OF FLOWCONTROL

vs. Standard Drip Tape

- ▶ High uniformity on longer runs and hilly terrain
- ▶ Improved system performance as a result of better irrigation uniformity
- ▶ Increased planting and harvesting efficiency by farming longer lengths of run
- ▶ Eliminate extra manifolds and labor-intensive jumpers (micro-tubing used to regulate pressure)

vs. Pressure-Compensating Tape

- ▶ Retain flexibility to increase or decrease application rate for greater control over watering and scheduling decisions
- ▶ Available in a wider range of thicknesses to meet the needs of all farming applications, including more affordable 5/8-inch 6-mil and 7/8-inch 8-mil
- ▶ One price for any emitter spacing from 6 – 24 inches, giving you the wetting pattern you want without paying a premium
- ▶ Designed with patented PBX technology for increased durability, clog resistance and uniform output

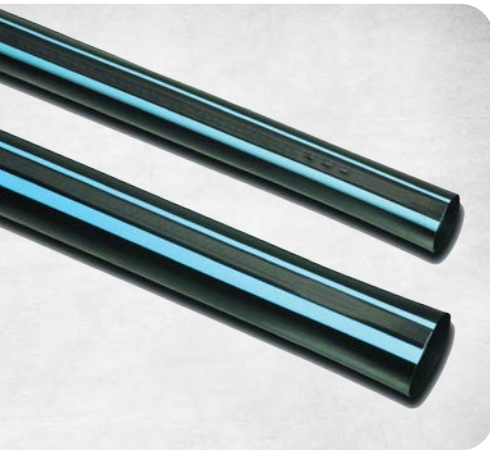
SEE FOR YOURSELF

“We are seeing more yield, and the uniformity improvement is visible. The wetting pattern at the beginning of the row is identical to the pattern at the end of the row. When water is equal from the beginning of the field to the end, this means the crop grows evenly and is higher quality.”



Manuel Paz

Huntington Farms | Soledad, CA



Toro's FREE drip irrigation design software, AquaFlow, allows you to see how different products will perform for your unique application. AquaFlow will calculate emission uniformity (EU) and generate color-coded Uniformity Maps to help illustrate how each product will perform – allowing you to select the right product for each application. The fewer colors displayed, the more even the irrigation uniformity. In the example shown above, FlowControl provides superior uniformity compared to standard drip tapes and increases EU by 4.1%. In other words, FlowControl reduces irrigation runtime by 4.7% to apply 1 inch of water!

Visit aquaflow.toro.com to do your own comparison and learn how FlowControl can improve your system's performance.

IS FLOWCONTROL RIGHT FOR YOU?

Whether you're looking to improve yield, increase irrigation uniformity, maximize lengths of run, or eliminate extra submains or jumpers, growers everywhere are making the switch to FlowControl. Call your local Toro dealer if you have any questions about FlowControl, visit toro.com, or contact us at driptips@toro.com.



WHEN WE SAY **COUNT ON IT**, WE MEAN IT

With an expanding population, growers around the world are looking to technologies that help increase productivity of existing land and maximize precious water resources. Toro's drip irrigation solutions help growers of permanent, field and row crops around the world realize substantial benefits in yield, quality, and water savings from the precise application of water and nutrients.

Visit toro.com or call **(800) 333-8125** for more information or to find your local Toro dealer.
Visit driptips.toro.com to learn more about drip irrigation and how it can help your farm.



TORO[®]

Count on it.

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