



# FACTSHEET

## Why Foamstream is the best herbicide-free weed control solution

*"Put in the simplest terms, hot water insulated by foam (Foamstream) works better and costs less. Scientific study after scientific study, from the Clean Region Project, to independent research by experts such as Dr Arndver Schwele at JKI and Palle Kristoffersen from the University of Copenhagen, has conclusively proven that Foamstream delivers greatly improved weed and vegetation control compared to hot water on its own."*

**Dr Mike May - in-house world-leading weed expert.**

### THE BENEFITS OF FOAMSTREAM:

- + Most cost-effective solution on the herbicide-free market.
- + Requires circa. 50% less treatment cycles than any hot water system.
  - + Reduces net weed growth year-on-year.
- + Suitable for use in all weather – meaning year-round use and no downtime due to bad weather.
  - + Most effective solution on the market to treat weeds, moss and algae.
  - + No addition of strong decalcifying chemicals unlike hot water systems.
    - + No specialist training or certification required.

### WHAT OUR CUSTOMERS SAY:

*"Our company has tried various alternative weed control solutions since 2010 and Foamstream is without doubt the most effective. Whereas hot water solutions only killed 50-60% of weeds on site, Foamstream instantly killed over 95% of weeds on first application, with just 2-3 applications (depending on the state of the soil) needed each year from then on. Foamstream is now the only weed control product for us."*

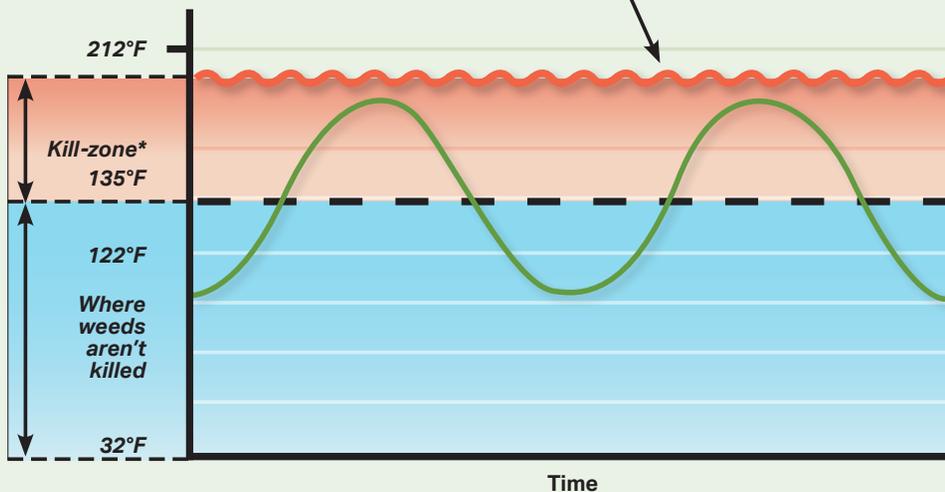
**Mr. Lemire, MD, Lemire Greenspace**

### WHY IS FOAMSTREAM SO MUCH MORE EFFECTIVE THAN HOT WATER ALONE?

The zone above 135°F is known as the kill-zone. The heat in hot water must stay within this zone in order to damage the plant structure and allow effective and efficient thermal heat transfer from the leaf to the root. Research shows that stable delivery of heat at 176°F for the first five seconds is crucial to ensuring the most effective plant kill and highlights that Foamstream systems deliver this desired heat transfer whereas hot water systems do not. Outside of the kill-zone (below 135°F) there is little to no effect on killing or substantially damaging the plant. Foamstream systems are the only systems on the market with an electronically-automated dual phase burner, which guarantees stable temperature and pressure. Stabilizing temperature and pressure means that we can guarantee the system stays consistently in the kill-zone unlike hot water systems that fluctuate in and out of the kill-zone.

## Graph showing the effect on temperature stability when comparing Foamstream dual-phase boilers to hot water single-phase boiler systems.

Foamstream systems guarantee delivery of stable temperature and pressure because they feature an electronically-automated, dual phase burner.



**Foamstream**

**Hot water system**

\*Kill-zone = 135+ degrees. The high temperature is what causes the plant structure to break down.

*"Weeds treated with Foamstream require just two to three treatments per season or as little as one if you're treating moss and algae. Hot water would require five to seven treatments per season. Fewer treatment cycles mean lower labor costs and greater cost savings including less use of water and diesel."*

Dr Mike May

## Treatment cycle rate for Foamstream vs hot water systems.

Foamstream treatment cycle

**Foamstream**

**Foamstream**

**Foamstream\***

Hot water treatment cycle



Foamstream requires at least 50% less applications per year than hot water systems

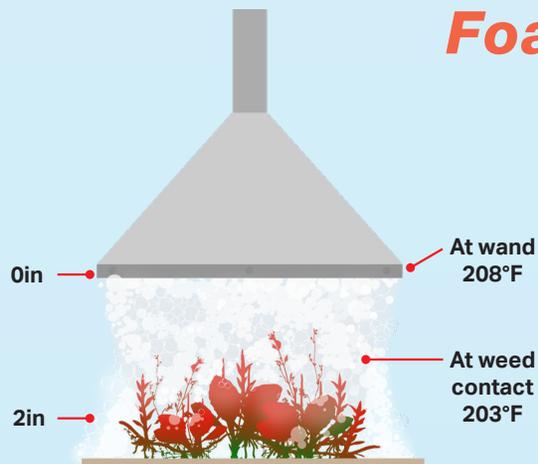
\*Third application may not be required

## HOW CAN FOAMSTREAM CONTAIN MORE ACTIVE INGREDIENTS BUT BE MORE COST-EFFECTIVE TO USE THAN A HOT WATER SYSTEM?

*"The foam ensures that the heat is retained in the hot water for longer. This allows the most efficient transfer of heat energy from water to plant by preventing heat loss to the atmosphere. The result is the most effective thermal transfer from the leaf to the root ensuring the plant is killed or severely damaged. The Foamstream process sterilizes seeds and spores therefore requires fewer annual treatments due to minimizing new growth. Overall this means that using Foamstream unequivocally represents the lowest total cost of ownership for users."*

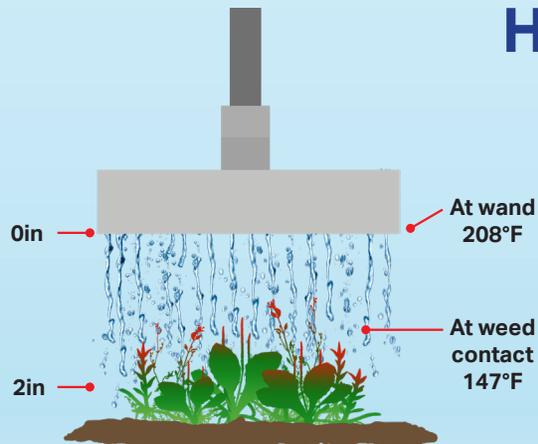
Dr Mike May

## Foamstream

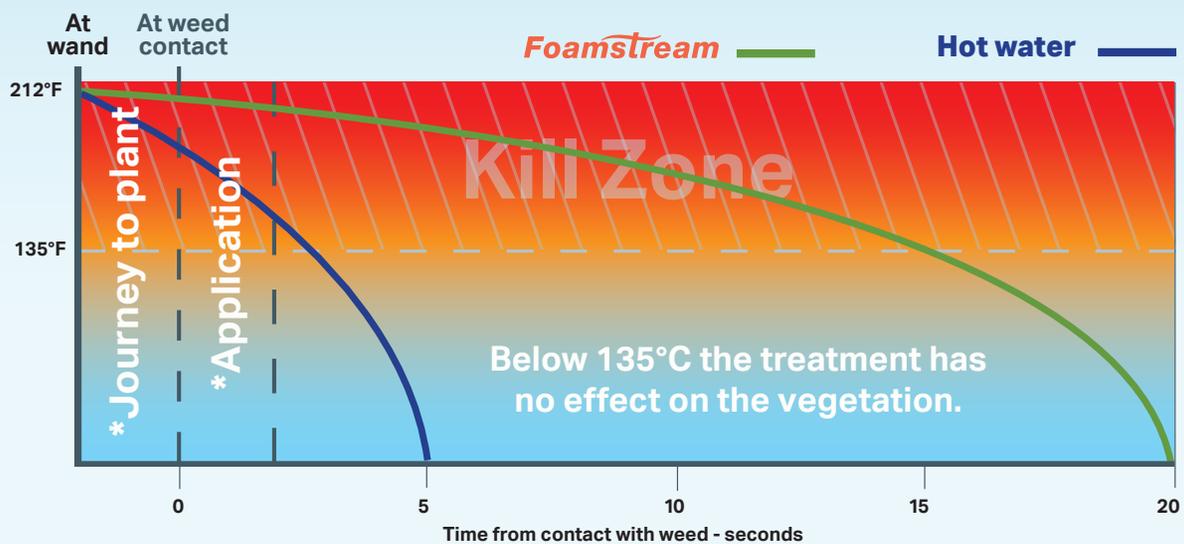


- W Kills the weeds
- W Sterilizes seeds and spores
- W Kills or sufficiently damages the root

## Hot water



- W Kills the leaves
- W No effect on seeds
- W Very weak effect on root structure



\*Journey to plant - time taken for the water/Foamstream to travel from wand to weed.

\*Application - time taken to cover the weed with the water/Foamstream

## WHY THE DELIVERY DEVICE MAKES A DIFFERENCE

Continuous scientific testing between Foamstream systems and hot water systems makes it clear why using Foamstream requires fewer treatment cycles. Foamstream delivery systems are the most innovative solutions on the market and as a result out perform their competition on price, performance and environmental impact. Read why below:

- 1 Heavy investment in in-house R&D – machines constantly evolve to meet customers' needs in response to feedback from in-field use.
- 2 Easy to use systems with safe operation and minimal training required.
- 3 Guaranteed delivery of foam at a correct stable temperature, flow and pressure.
- 4 Low maintenance (no annual steam pressure testing required unlike other systems).
- 5 Minimum five year life expectancy with 12 months parts and labor warranty.
- 6 Additional applications include street sanitization and cleaning tasks such as gum removal and power washing.
- 7 Year-round functionality - helps spread costs across different departments in your organization.
- 8 Unparalleled post-sales support from a highly skilled service team.
- 9 Very low risk to surrounding environment, ecosystems, people and animals.

## ENVIRONMENTAL CREDENTIALS OF FOAMSTREAM

- + Made from 100% biodegradable and environmentally friendly natural plant oils and sugars.
- + Cleared for use as organic, safe and non-toxic by multiple accreditation bodies across Europe and North America.
  - + Safe for use around people, animals and delicate ecosystems including waterways.
  - + Annually, uses less water and diesel to achieve the same results as a hot water system.
  - + No decalcification chemicals required unlike other systems.

## WHAT DO OPERATORS AND THE PUBLIC THINK ABOUT THE FOAM?

*Foamstream is fantastic because it's people friendly and safe for use around waterways and around pets - something which is a big concern for a lot of people. I always get a lot of positive feedback when I am out and about using Foamstream and I'm really pleased to be able to work with a product with such brilliant green credentials.*

*Foamstream's very user friendly. With the glyphosate you have to work out the dilution ratio, speed of travel and general safety of glyphosate. You then have to carry a heavy knapsack and can only treat when the conditions and weather are right to do so. With Foamstream I literally park it up, start it up, warm it up and then I'm away with the wand. It's really user friendly and over a working day you are actually covering more open ground than you would for glyphosate*

**John Debnam, Weed Control Team Leader, Burleys - part of the TCL group.**

