



APSE Scotland Parks, Grounds, Street Services Advisory Group

Glyphosate and the Alternatives

The Highland Council's Experience

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Topics to cover...



- The issues with glyphosate
- Alternative products or controls
- Integrated measures
- Some tried and tested examples
- Questions
- Group discussion

The glyphosate debate



- International Agency for Research on Cancer in 2015 found that glyphosate was 'a probable human carcinogen'
- Ban initially imposed
- Extension was granted for five years from end of 2018

The glyphosate debate



- In June 2019 The Highland Council agreed a motion to;
 - Immediately ban the use of weed killing products containing glyphosate in all sports, recreation facilities and play grounds and schools
 - Prepare a Business case for consideration at the next council meeting on options for a complete ban on the use of such products

The Highland Council



- Current spend on weed control is £0.5m per annum
- Across a range of Council Services
- Addresses a number of issues

What are the alternatives?



There are no direct replacements

Spraying options;

- Kurtail Gold
- Finale
- Katoun Gold
- Horticultural vinegar

What are the alternatives?



Issues with organic products;

- Pungent
- Good PPE essential
- Repeated applications required
- Regrowth

Integrated weed control strategies



Long-term management approach using;

- Physical control
- Chemical control
- Organic control
- Thermal control

Integrated weed control strategies



Advantages

- Reduced resilience
- Long term weed management plan
- Reduce extent of weeds and weed seed stock

Electric Weed Control






- Ubiquitek
 - Touch Pro



Foam Stream



	Foamstream — L1200 —	Foamstream — M600 —	Foamstream — M1200 —
			
Flow Rate	12 U/m ~ 3.2 gal./m	7 U/m ~ 1.85 gal./m	12 U/m ~ 3.2 gal./m
Foam Usage	2.4 U/h ~ 0.63 gal./h	2.0 U/h ~ 0.53 gal./h	2.4 U/h ~ 0.63 gal./h
Fuel Source	Diesel and petrol (gasoline) / propane	Diesel and propane	Diesel
Battery Option	N	Y	Y
HMI Screen	N	Y	Y
FSS*	N	Y	Y
IoT Ready	N	Y	Y
Super High Pressure	Y	N	N
Rinse Mode*	Y	N	N
UTV Compatible	Y	Y	N

Rinse Mode* - machine option to use water without foam

*FSS - Foamstream Software System

What is Foamstream Software System?

Weedingtech's Proprietary Foamstream Software System: (Incorporated into the M600 & M1200)

- Automated Temperature at Lance
- Level sensors for Foamstream diesel and water
- Automatic Safety Mode
- Low Engine Oil Level warning
- Service Notifications
- Boiler diagnostics
- Relay Diagnostics
- Flow Switch Diagnostics
- Pressure Switch Diagnostics

Foam Stream Demo



Foam Stream - Results



Embrace the Wildflower



Summary



- Consider logistics, cost, the environment and sustainability
- Warmer climate
- Some chemical control required

Summary



- Environmental effects
 - petrol driven machines and fumes
 - chemical exposure
- Cost
 - effectiveness
 - number of applications

Summary



- Glyphosate most efficient
- More tolerance of weeds
- Advice and education
- Rural vs Urban environment
- Integrated approach

Questions?



Discussion...



- What are your local authorities doing?
- Any other methods or products not mentioned already?
- What next?

Thank you



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