

# GROGREEN® FEED&SHINE® ROSES

Research and documentation 2021



## Foliar feed for roses

Available in a ready-to-use or concentrated formulation.

### Description

E. Marker A/S first launched their popular GroGreen® Feed & Shine® Roses in 2019, though with an eye on a potential improvement, this trial was set up to test an upgraded formulation, with good new potential. The trial used commercially representative miniature roses and was established in a garden with normal growing conditions and set out to not only evaluate the performance of the old and new formulations, but also a potential organic alternative at the same time.

### Objective

The main aim of this trial was to test safety and efficacy of the new formulation. Specific trial objectives included checking for any signs of phytotoxicity (including at double rate application rate) and gauging plant vigour and health against the existing high product standards.

### Summary and conclusions

The new, improved formulations of GroGreen Feed & Shine Roses and GroGreen Feed & Shine Vegetables proved to be free from any phytotoxicity to rose plants and resulted in more robust, healthy growth.

All Feed & Shine products out-performed the Untreated Control rose plants, in growth, vigour, flowering and delayed onset of Blackspot on the rose plants.

The new formulation of GroGreen Feed & Shine Roses also appeared to perform marginally better than the previous formulation, which is a highly positive result and will allow great confidence for the launch of a new, improved product.

### Observations & Outcomes

Phytotoxicity:	No incidences observed in any treatments, including 2x weekly.
Plant vigour:	All treatments demonstrated increased plant vigour over UTC.
Greenness:	The leaves of the new Rose formulation 2x weekly and Vegetable formulations showed the optimum leaf colour, as shown in graphs below.
Leaf health:	All treatments demonstrated the ability to assist rose plants in maintaining leaf health for longer, withstanding the onset of Black-spot disease.

# GROGREEN® FEED&SHINE® ROSES

Research and documentation 2021

## Place & Time

The rose plants were established at the start of July, with applications and assessments done weekly throughout July and August until mid-September.

The plants were divided 50:50, between greenhouse and outdoor production, to ensure the widest range of conditions were covered. The site was a typical country garden in the village of Wilmcote, Warwickshire, UK.

## Means & Methods

The trial included 5 treatments, each including 12 miniature rose plants; 6 inside a greenhouse, 6 outside and applications were made weekly, except the double rate of new formulation which was applied 2 x per week.



*The plants were divided 50:50, between greenhouse and outdoor production.*

## Trial treatments

1. UTC - Untreated control (water sprayed only)
2. Current product; GroGreen® Feed & Shine® Roses (1x weekly)
3. New formulation; GroGreen® Feed & Shine® Roses (1x weekly)
4. New formulation; GroGreen® Feed & Shine® Roses (2x weekly)
5. GroGreen® Feed & Shine® Vegetables (new organic formulation)

## Trial details

- Plant number: 60 in 1.5 L pots  
Applications: 8, weekly  
Assessments: 10, weekly
- Vigour & leaf green-ness
  - Plant health



*The main aim of this trial was to test safety and efficacy of the new formulation.*

# GROGREEN® FEED&SHINE® ROSES

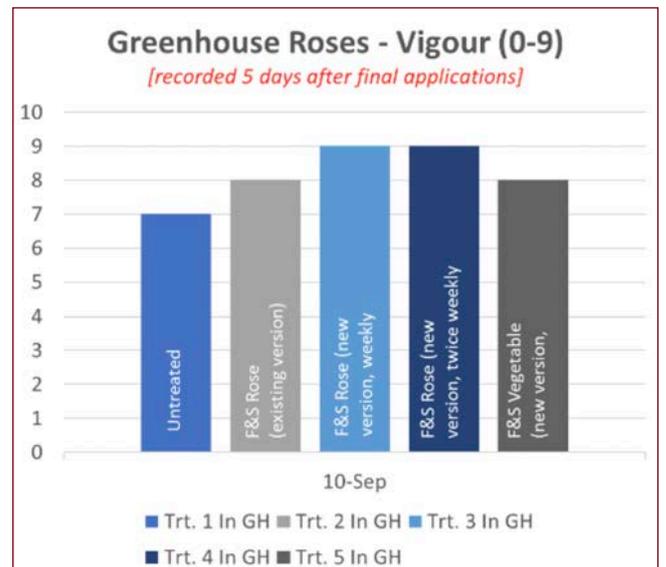
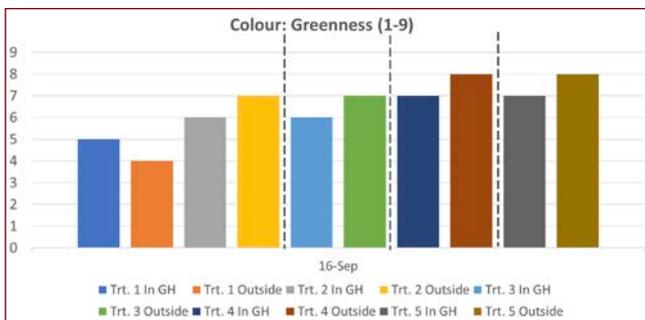
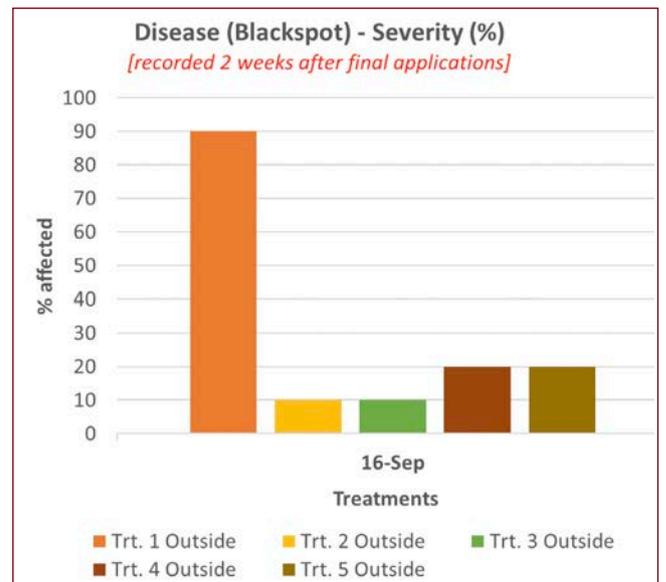
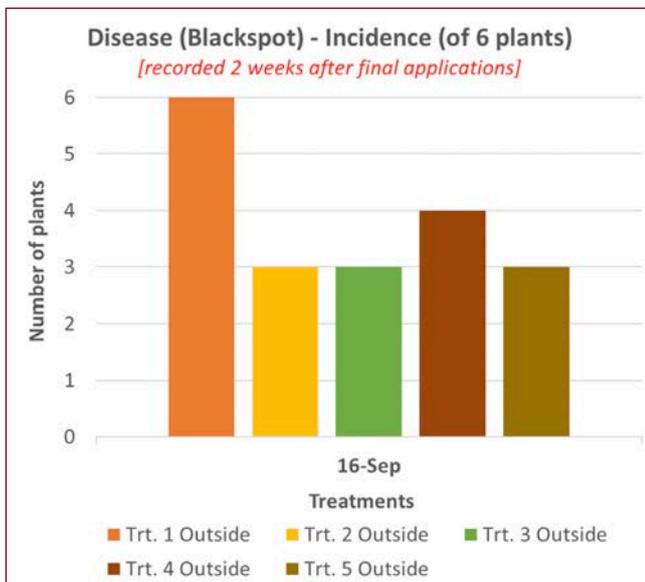
Research and documentation 2021

## Observations & Outcomes

- Phytotoxicity: No incidences observed in any treatments, including 2 x weekly.
- Plant vigour: All treatments demonstrated increased plant vigour over UTC.
- Greenness: The leaves of the new Rose formulation 2 x weekly and Vegetable formulations showed the optimum leaf colour, as shown in graphs below.
- Leaf health: All treatments demonstrated the ability to assist rose plants in maintaining leaf health for longer, withstanding the onset of Blackspot disease.



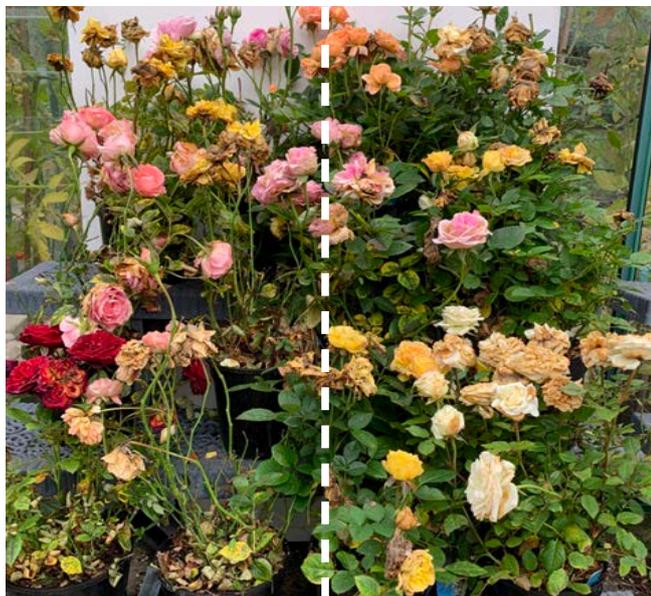
The plants were divided 50:50, between greenhouse and outdoor production.



# GROGREEN® FEED&SHINE® ROSES

Research and documentation 2021

## Photographic evidence



Treatment 1:  
Untreated Control.

Treatment 3:  
F&S Rose (new) 1x weekly.



Treatment 1:  
Untreated Control.

Treatment 3:  
F&S Rose (new) 1x weekly.



Treatment 1:  
Untreated Control.



Treatment 2:  
F&S Rose (current) 1x weekly.



Treatment 3:  
F&S Rose (new) 1x weekly.



Treatment 4:  
F&S Rose (new) 2x weekly.



Treatment 5:  
F&S Vegetables (new) 1x weekly.



ESSENTIAL PLANT OIL  
TECHNOLOGY

