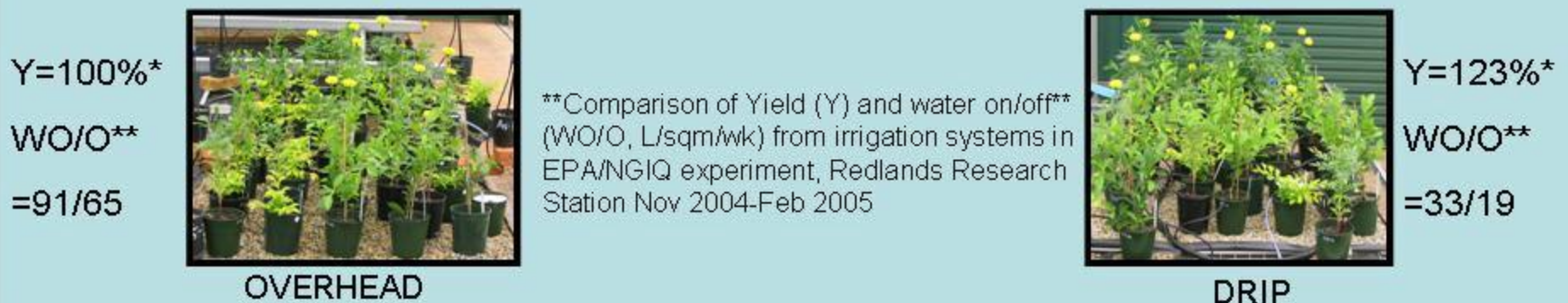




TopUp™ is an irrigation management system that delivers water to a potted plant both from above and from below. Anovamat™ and Aquamat™ utilise similar principles.

Water is applied by conventional overhead irrigation (and, or direct to the mat). The water that falls between pots (as much as 80%) does not run-off but is absorbed by the mat (capacity of 5 L/sqm) on which the pot sits. As water in the pot is used it is replaced by this absorbed water. As a consequence almost all the water applied is used by the plant. Much less water needs to be applied since there is little or no run-off (containing nutrients). Overhead irrigation prevents salt accumulation in the top layer of the pot. Plants grow faster because of less water stress.

The ANOVApot™ is the preferred pot for this system because it has been designed to greatly reduce root escape - a plant response promoted by continuous bottom irrigation. ANOVApot™ is also designed to aid the easy and rapid removal of any roots that do emerge.



TEST ↓TopUp™↑ FOR YOURSELF

Operation

- ★ Layout mat in an existing irrigation bay, weedmat uppermost.
- ★ Plant up the ANOVApot™s during the normal potting operation
- ★ Calculate how many pots at your selected density should fit on the mat
- ★ Place half this number of ANOVApot™s randomly (not in a block) on the mat
- ★ Place the remaining ANOVApot™s around but outside the mat among your normal pots
- ★ Fill up the remaining spaces on the mat with your normal pots

What you should notice

- ★ Surface of the TopUp™ pots stay wetter
- ★ Mat is always wet, but not the cover sheet (weed mat)
- ★ Growth of TopUP™ plants is faster
- ★ The TopUp™ system will promote root escape from most pots but this is much less evident in ANOVApot™ (and they are easily removed)

Conclusion

The TopUp™ system should allow you to apply much less water with little or no run-off but still achieve equivalent or better growth.



Why Greenlife Retail Centres need TopUP™ irrigation mats



Perceived problems with mats and their solutions

- ★ Algal growth reduced- new mats are impregnated with immobile but plant activated copper
- ★ Plumbing complexity and cost minimised- mats are watered by hand with very little run-off
- ★ Mat maintenance reduced- much less with the use of ANOVApot™
- ★ Dripping pots on the way to check out virtually eliminated with the ANOVApot™
- ★ Induced root escape and attachment- greatly reduced and more easily managed with the use of ANOVApot™



Why Greenlife Retail Centres need TopUP™ irrigation mats



- ★ Overhead watering is very wasteful (~80% of water misses pot)
- ★ Without mats hand watering can be very hit and miss
- ★ Less than one quarter of the overhead water (without mats) is needed to keep mats wet with little loss of leachates
- ★ Keeping mats wet, keeps all plants well watered
- ★ This water saving converts directly into saving labour
- ★ No need to relocate display plants for watering
- ★ In heat wave conditions, wet mat plants have much better access to water throughout the day
- ★ Fewer discards and much increased shelf life
- ★ Sub-irrigation actually promotes better growth and reduces leaf diseases
- ★ Very little excess water to promote algal growth on concrete (OH&S issue)