

Water Conservation – Product # 1

Comments And Observations

1 10/13/06

An informal field test will be performed as due diligence until witnesses are satisfied about results.

2 10/13/06

PURPOSE: Test Product # 1's manufacturer's claims of a 30% crop improvement including 30% to 50% watering reduction. Gay Larson, a Master Gardener, will perform field test on three groups of three different plants.

Group 1 - Control Group - will be 3 pots of sample plants + potting soil only.

Group 2 - will be 3 pots of sample plants + potting soil + 2 Teaspoons of Product # 1 per plant + no fertilizer.

Group 3 - will be 3 pots of sample plants + potting soil + 2 Teaspoons of Product # 1 + an initial liquid fertilizer drench per plant.

Notes:

1. Liquid fertilizer diluted in 1 Quart of water per manufacturer's instructions.
2. First watering includes liquid fertilizer only in Group 3's watering and tap water only thereafter.
3. Group 2 and 3 will receive 1/2 of Group 1's water volume to test manufacturer's 30% H2O guarantee.

Plants Chosen: 3 Pansies, 3 Snapdragons and 3 Parsley.

3 10/13/06

Water flowed excessively out of Group 1 pots indicating that (1) Group 2 pots were retaining much more water and (2) Group 3 pots were retaining much more water and liquid fertilizer.

Witnesses:

1. Gay Larson, a Master Gardener in the Dallas / Fort Worth Metroplex.
2. Rolf Larson of Smith Barney in the Dallas / Fort Worth Metroplex.
3. Bob Ballew, a retired Certified Purchasing Manager (C.P.M.) and national-media-recognized Materials Expert.



Repot per Process # 1.



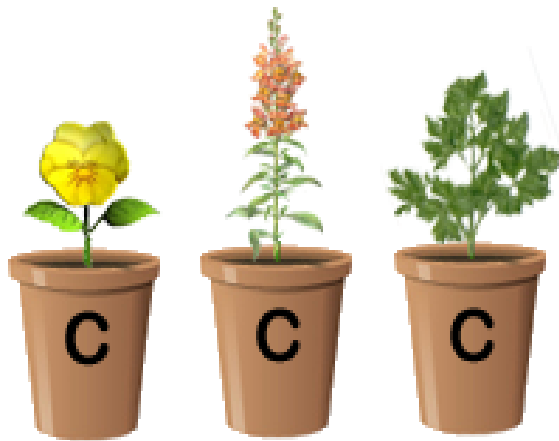
Standard 6" nursery plastic pots.

OVERVIEW

Group 1:

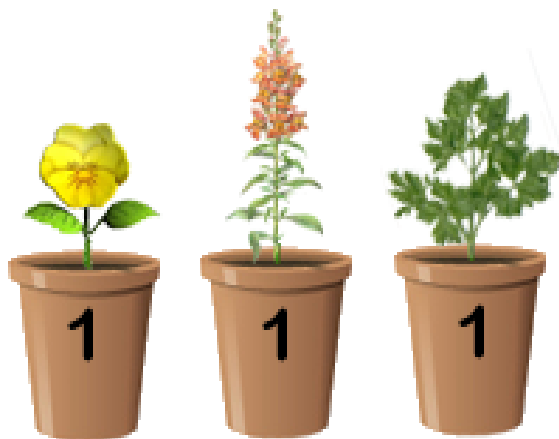
(Control Group)

Plants
+ Potting Soil



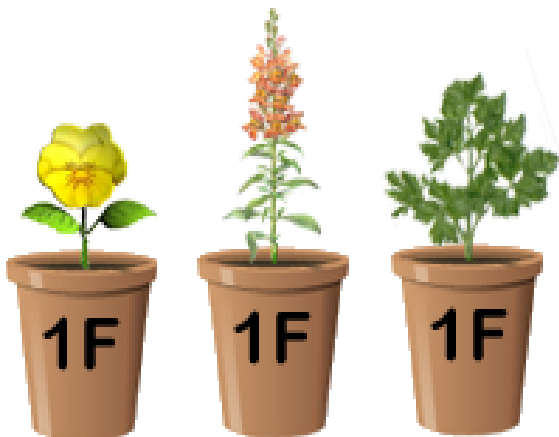
Group 2:

Plants
+ Potting Soil
+ Product 1



Group 3:

Plants
+ Potting Soil
+ Product 1
+ Fertilizer



FIRST WATERING AT REPOTTING

1 Quart drench of "tap water" to first 2 pots.
1 Quart drench of "tap water + liquid fertilizer" to last pot.

Pansies



Snapdragons



Parsley

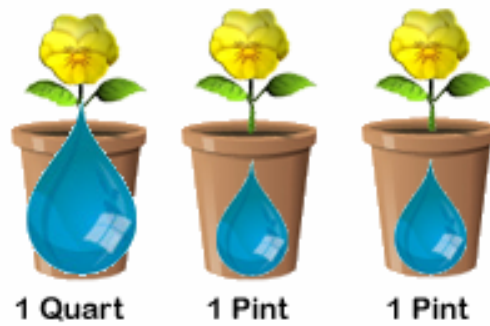


MAINTENANCE WATERING

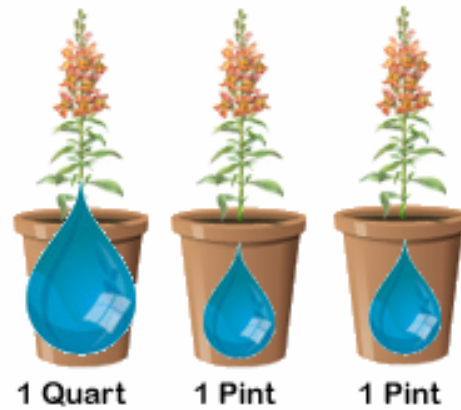
1 Quart drench of "tap water" to first pot.

1 Pint drench of "tap water" to 2nd and 3rd pots.

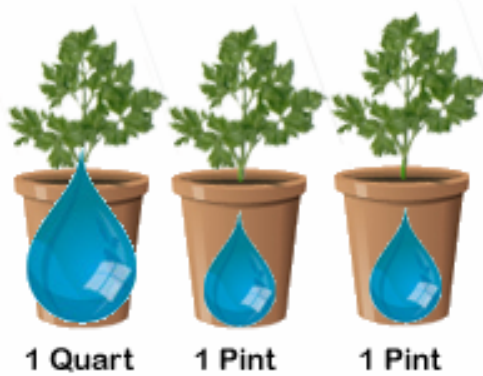
Pansies



Snapdragons



Parsley



OBSERVATIONS

1. Group 1 - Initial 1 Quart Drench:

Most of the water drained out of all three pots drain holes indicating that only a small portion of the water was retained for actual use by the plants.

2. Group 2 and 3 - Initial 1 Quart Drench:

Approximately 1 tablespoon of water seeped out of the other six pots' drain holes.

CONCLUSIONS

A. Group 2 and 3 pots retained most of the water for use by the plants.

B. Group 1 indicates wasted water in the initial watering. In real applications this would indicate an undesirable overflow or trickle-down to the water table or aquifer. Water is wasted.

AFTER THOUGHTS...

1. All water over-flow or drainage from all pots should be measured to obtain actual, effective volumes of water retained in the pots for use by the plants.

2. A small amount of each competitive product should be saturated with water and the tactile feel of the saturated product should be observed and described. Each should then be dehydrated to observe their changed characteristics.