

At home, in the garden or in the greenhouse, GrowStones™ are an ideal substrate to grow a wide variety of crops in different hydroponic systems. GrowStones™ can be used in systems as simple as manually irrigated containers, or as advanced as automatically irrigated systems such as drip irrigated containers, Ebb-Flow, and NFT tables.

For best plant performance, follow these simple steps and recommendations:

Preparation		
1-	Rinse by submerging GrowStones™ in a bucket of warm water for 45 minutes.	
2-	Volume of water should be approximately four times the volume of GrowStones™.	
3-	Discard rinse water in the garden.	
Seeding and Transplant		
4-	Place rinsed GrowStones™ in your growing system:	
	Ebb-flow systems	NFT systems
	Fill container with a volume of GrowStones™ proportional to your recirculating pump. Nutrient solution should rise until GrowStones™ feel moist to touch 1" - 2" below the surface.	Total depth of GrowStones™ should be adequate to support and keep crown above water level or flow.
	<b>Containers</b>	
	Fill container with GrowStones™ to within 1" from the top.	
5-	For direct seeding place seed in a peat or other soilless mix plug and transplant into GrowStones™ media.	
6-	To transplant seedlings, gently insert bottom of plug or seedling into the GrowStones™ growing media.	

Nutrition
Please consult your local garden center or hydroponic store for more information on nutrient formulations that will most benefit your plants.
Most pre-mixed formulations developed for greenhouse or garden plants will need Mg and Ca supplementation. For more in depth information on nutritional and irrigation programs visit our website: <a href="http://www.earthstonetechnologies.com">www.earthstonetechnologies.com</a> .

Irrigation schedule			
Automated			
	Ebb-flow systems	NFT systems	Containers
Frequency	For recently transplanted seedlings, flood once to twice a day. As plants grow, maintain moisture 1" - 2" below surface.	Maintain thin film of nutrients flowing at all times.	For recently transplanted seedlings, irrigate once to twice a day. As plants grow, maintain moisture 1" - 2" below surface.
Duration / Depth of flow	Enough to maintain surface of GrowStones™ moist to touch.		Irrigate until drainage is visible from bottom of container.
Manual Irrigation			
Manual irrigation in GrowStones™ is generally recommended for low water usage plants such as aromatic herbs, perennials or short cycle vegetable plants grown in individual containers.			
Frequency and duration	Twice a day until bottom drainage is visible. As plants grow, increase irrigation frequency to maintain surface of GrowStones™ moist to touch.		

Directions to reuse GrowStones:
To reuse GrowStones™ in second crop, simply remove old plant from container, and shake well to displace any GrowStones™ attached to roots. For directions on seeding and transplant simply repeat steps 5 and 6.

More information:
For more detailed and free technical information go to <a href="http://www.earthstonetechnologies.com">www.earthstonetechnologies.com</a> .