Mycorrhizal Applications

Endomycorrhizal Fungi Species & Benefits

Beneficial Factors Attributed to Endomycorrhizal Fungi and Their Relationships with Plants	Endomycorrhizal Fungi								
	Glomus mosseae	*Glomus aggregatum*	*Glomus intraradices*	*Glomus etunicatum*	*Glomus deserticola*	*Glomus clarum*	*Glomus monosporum*	*Gigaspora margarita*	*Paraglomus brasilianum*
Plant Nutrition Attributes									
Increased Nitrogen (N) uptake	X	X	X	X	X	X		X	
Increased Phosphorus (P) uptake	X	X	X	X	X	X	X	X	
Can access organic forms of N and P			X						
Increases mineral uptake			X	X	X				
Effective root colonization with time-release fertilizers	X	X							
Tolerant of high fertility levels		X							
Increases N fixation activity					X	X			
High levels of enzyme activity benefiting nutrient and micronutrient acquisition	X		X	X			X		X
Plant Growth and Establishment									
Improved performance of woody perennials	X		X	X					
Increases fruiting and flowering	X		X	X	X	X	X		
Improves plant performance in sandy soils		X			X				
Improves performance of palms and fruit trees		X	X						
Increases crop yields	X		X	X	X	X		X	
Improves growth and performance of turf grasses, agricultural crops and nursery stock	X		X						
Very effective in agricultural soils	X		X	X	X	X			
Improved plant establishment	X		X	X					
Well adapted to a wide variety of plants and soil conditions	X		X			X			
Improved growth of grain crops	X		X		X	X			
Increases production of vegetable crops	X		X		X	X	X		X
Improved growth of tropical and sub-tropical fruits		X	X			X		X	

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Heat and Drought Tolerance									
Drought protection	X	X	X	X	X		X		
Greatly improves drought tolerance	X		X	X	X				
Active during periods of low water availability	X		X	X	X		X		
Suppression of plant pathogens and root diseases									
Stimulates root development	X		X	X		X			
Keeps root systems healthier	X	X					X	X	X
Nematode protection of roots	X		X	X					
Promotes disease suppression	X			X			X		
Effectively suppressed Verticillium wilt				X					
Promotes root rot tolerance							X		
Soil Physical and Chemical Conditions									
Salt tolerance	X		X	X		X			
Effective in mine reclamation	X	X	X	X		X		X	X
Protects against heavy metal toxicity	X	X		X	X	X		X	X

The information in this table is a summary of a recent analysis of peer-reviewed scientific journal articles on the topic of mycorrhizal fungi and their benefits to plants. This table is updated periodically, as new studies are published. Please visit www.mycorrhizae.com or contact your Mycorrhizal Applications Representative for the latest version of this chart.

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