

Benefits for the Host Plant Attributed to the Endomycorrhizal Fungi included in Root Rescue Transplanter



Endomycorrhizal Fungi

| <i>Glomus mosseae</i> | <i>Glomus aggregatum</i> | <i>Glomus intraradices</i> | <i>Glomus etunicatum</i> | <i>Glomus deserticola</i> | <i>Glomus clarum</i> | <i>Glomus monosporum</i> | <i>Gigaspora margarita</i> | <i>Paraglomus brasilianum</i> |
|-----------------------|--------------------------|----------------------------|--------------------------|---------------------------|----------------------|--------------------------|----------------------------|-------------------------------|
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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 contact Bob Reeves at Root Rescue for more information: bob@rootrescue.com www.rootrescue.com