

# Benefits of AMF in Agroecosystems

exploring the hidden world of microbes

AMF confer many **competitive advantages** to plants in agroecosystems. The advantages can be divided into four categories:

## 1. Nutrients

- Increase plant nutrient acquisition P N
- Decrease nutrient leaching

## 2. Soil

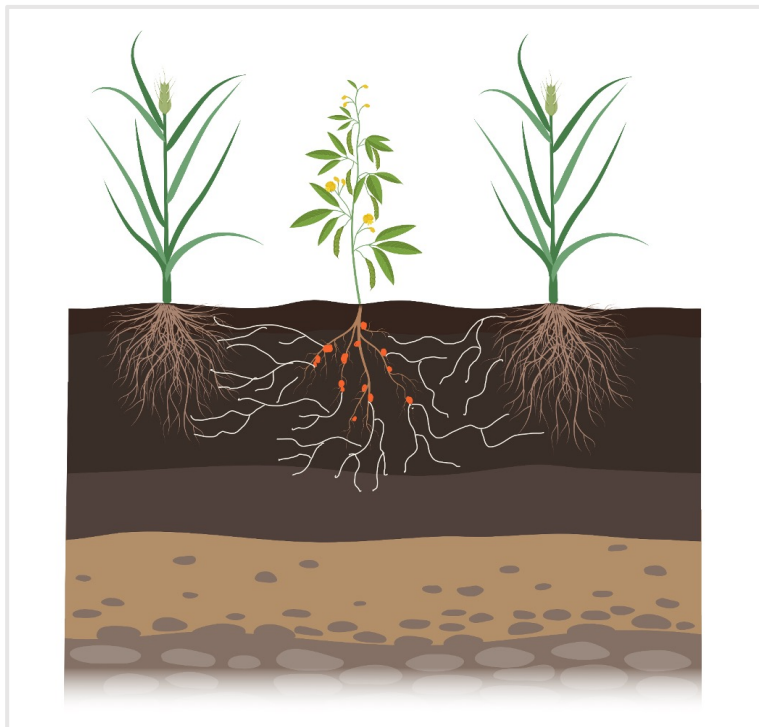
- Improve soil structure
- Reduce erosion
- Detoxify heavy metals
- Increase carbon sequestration

## 3. Water

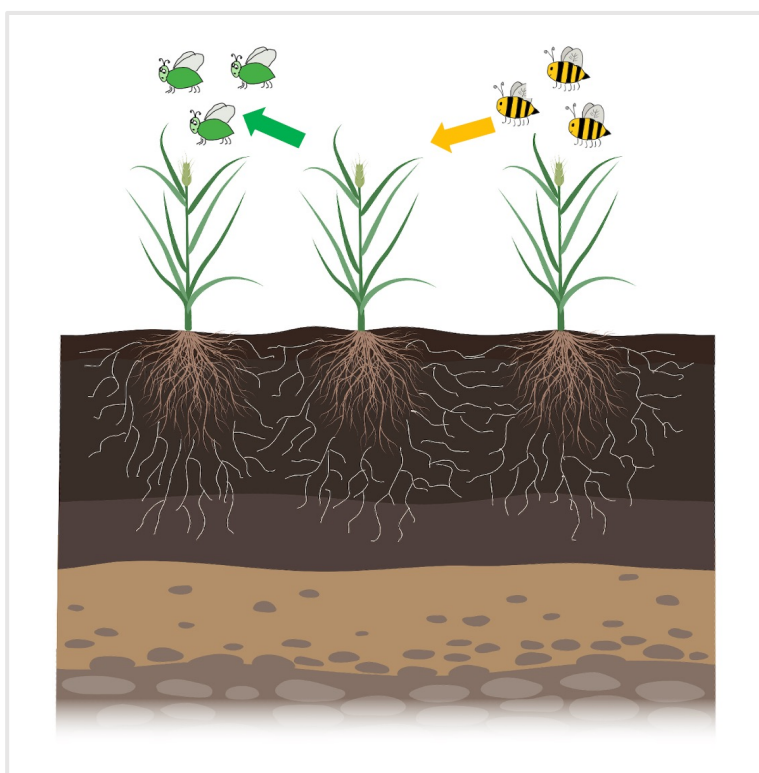
- Increase water retention
- Increase drought resistance

## 4. Pests & Pathogens

- Weed suppression
- Pathogen suppression
- Predator suppression
- Increase pollinator visitation



**Figure 1.** AMF distribute nitrogen from a legume to neighboring grasses



**Figure 2.** AMF help the plant to repel herbivores and attract pollinators