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Table 1. Mycorrhizal colonization rates at boot stage, belowground biomass at late-milk stage; and, aboveground biomass at late-milk, and boot stage for IMO+/-, AMF+/-, and MyAp+/- treatments.

 Mycorrhizal Aboveground Belowground Aboveground

 Colonization Biomass Biomass Biomass

Treatments df (boot) (boot) (late-milk) (late-milk)

 % g/pot g/pot g/pot

AMF+ 56.26 a 2.20 ab 2.92 a 10.55 bc

AMF- 40.38 a 1.73 b 2.45 a 9.12 b

IMO+ 38.63 a 2.63 a 2.91 a 13.23 a

IMO- 49.28 a 2.34 ab 2.84 a 12.48 ab

MyAp+ 40.2 a 1.73 b 2.63 a 9.44 c

MyAp- 37.76 a 2.38 ab 2.72 a 10.07 bc

ANOVA

 5 0.289 ns 0.981 ns 0.0183\* <0.0001\*\*\*

CV (%) 33.0 32.7 22.2 18.5

Levels not connected by the same letter are significantly different

\* significant at p < 0.05.

\*\* significant at p < 0.01.

\*\*\* significant at p < 0.001.

ns, not significant.

Table 2. Macro nutrient (N, Ca, K, P, and, Mg) uptake at late-milk stage by treatment (IMO+/-, AMF+/-, and, MyAp+/-).

Treatments df N Ca K P Mg

 mg/pot mg/pot mg/pot mg/pot mg/pot

AMF+ 150.2 a 14.8 a 170.2 a 18.5 a 26.4 ab

AMF- 154.3 a 14.9 a 164.1 a 14.5 a 24.6 b

IMO+ 182.7 a 18.8 a 206.8 a 21.1 a 32.8 a

IMO- 165.9 a 16.9 a 200.6 a 22.0 a 30.2 ab

MyAp+ 152.9 a 12.5 a 178.1 a 18.4 a 22.3 b

MYAP- 161.6 a 13.3 a 174.9 a 19.4 a 24.5 ab

ANOVA

5 0.125 ns 0.086 ns 0.109 ns 0.067 ns 0.005 \*\*

CV (%) 12.8 34.3 14.1 21.1 29.6

Levels not connected by the same letter are significantly different

\* significant at p < 0.05.

\*\* significant at p < 0.01.

\*\*\* significant at p < 0.001.

ns, not significant.