

Soybean response to rhizobia inoculation on soils of variable nitrogen levels



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Introduction

- Soybean?
 - Why inoculation?
 - What are the challenges?
 - What can be done to improve soybean response to inoculation?
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- **Objective:** To determine the performance of soybean inoculation on soils of variable levels of nitrogen (N) and organic carbon (C_{org}) and its improvement through soil N and C_{org} amendments.

Findings

- Soybean response to variable soil N levels varied across the 60 soils.
- Nitrogen levels in soils of different physical and chemical properties were not suitable to assess the critical N values below and above which soybean response to rhizobia inoculants would be hindered; further investigation is required.
- Amending soils of low N levels with vermicompost and complementary nutrients increased soybean response to inoculation.
- The soil with $N = 0.08\%$ performed better after amendment, which was consistent with the good chemical properties when compared to the soil of $N = 0.06\%$.

THANK YOU!

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