

TRIAL DATA SHEET

NUE-TRITION - Molybdenum



Objective: To evaluate the effect of molybdenum as a fertiliser coating on yield and NUE

Crop: Winter oilseed rape

Location: Aberdeenshire

Date: 2020

Researcher: Trials Force, Aberdeenshire

Trial code: 20809

Background:

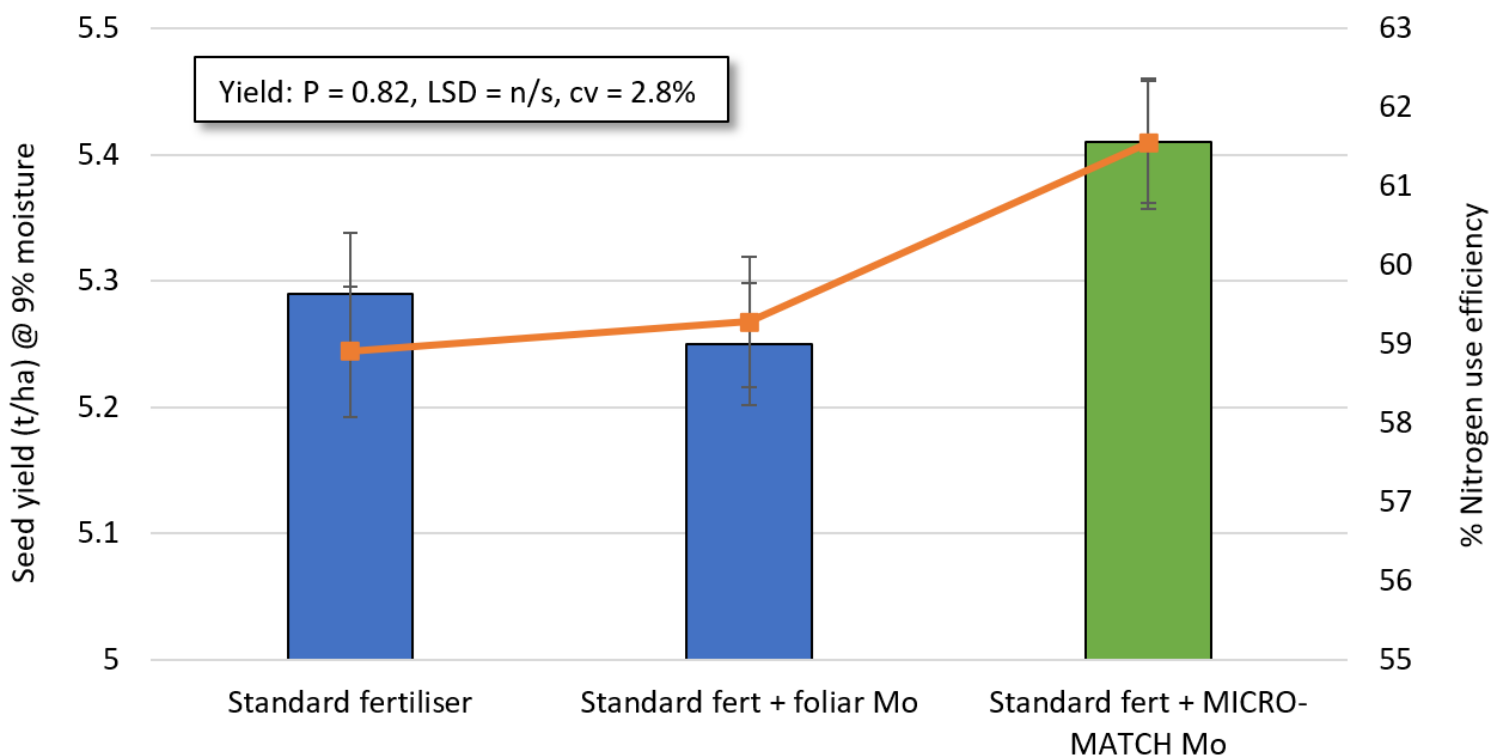
Hypothesis: Can MICRO-MATCH molybdenum fertiliser coating increase nitrogen use efficiency?

Site: Sandy loam, pH 5.8, soil Mo < 0.01mg/l (guide 0.6mg/l), SOM 5.7%
Soil Mo level is low and availability is further compromised by the low soil pH

Treatments:

1. Standard fertiliser programme (seedbed NPK f/b NS top-dressing), zero molybdenum
2. Standard fertiliser programme plus foliar molybdenum in spring (T1)
3. Standard fertiliser programme plus MICRO-MATCH molybdenum coating on spring NS compound

Results: Molybdenum trial on winter OSR to evaluate yield response and nitrogen use efficiency



Conclusions:

- MICRO-MATCH molybdenum increased yield by 2.3% vs. zero Mo and by 3.0% vs. foliar Mo
- MICRO-MATCH molybdenum increased nitrogen uptake by 5.4%
- MICRO-MATCH molybdenum increased NUE by 4.5%
- MICRO-MATCH molybdenum gave a return on investment of 5:1

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