## Mecklenburg Vorpommern

# Is early sowing still possible?

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### **Introduction**

- ban on neonicotinoid seed treatment of rapeseed in the European Union increases insect pest problems
- the ban lead to stronger infestations with Delia radicum and others
- Farmers avoid early sowing more and more because of the stronger infestation compared to later sowing date
- high N-intake of early seeded winter oilseed rape is important for groundwater quality

#### **Material and Methods**

Elevation	10 m
oil type SI-sL	
Average yearly temperature	9,1 °C
Average yearly precipitation	557 mm

Tab.1 Sites description of trial field in Gülzow (Mecklenburg-Vorpommern)

Sowing date	N-fertilisation	seed rate
Early	1) 100 kg N/ha ASS+100 kg N/ha KAS	1) 55 seeds/m <sup>2</sup>
01.0815.08	2) 100 kg N/ha ASS+ biomass-derived	2) 35 seeds/m <sup>2</sup>
Normal 16.0825.08.	100 kg N/ha ASS+100 kgN/ha KAS	60 seeds/m <sup>2</sup>
Late	1) 100 kg N/ha ASS+100 kg N/ha KAS	1) 65 seeds/m <sup>2</sup>
26.08-15.09	2) 100 kg N/ha ASS+ biomass-derived	2) 45 seeds/m <sup>2</sup>



Tab. 2 Trial design separated into sowing dates as fully randomised blocks (A/B/C),



Fig.1 Manual measuring of nitrogen intake, biomass in kg/m<sup>2</sup> x 45 = kg N/ha

#### **Results**



Fig. 2 Root damage of cabbage root fly larvae (severity index) in autumn and rapeseed yield in Gülzow



#### **Conclusions**

- early sowing date can still be an option
- Iush growth of early seeded winter oilseed rape compensate often the strong infestation and root damage of cabbage root fly larvae
- late seeded winter oilseed rape has higher risks to get damaged by frost because of its delated development
- our trials with early seeded winter oilseed rape showed:
  - slightly reduced fertilisation had no yield influence
  - reduced sowing rate lead to small negativ yield effects
- Attention of clubroot in early seeded winter oilseed rape !!

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