



Cultivation of plant proteins, potentials and limitations

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Possible protein crops

- Grain legumes
 - Faba beans, narrow leaved lupines and field peas
 - Soya bean
- Rape seed
- Clovergrass



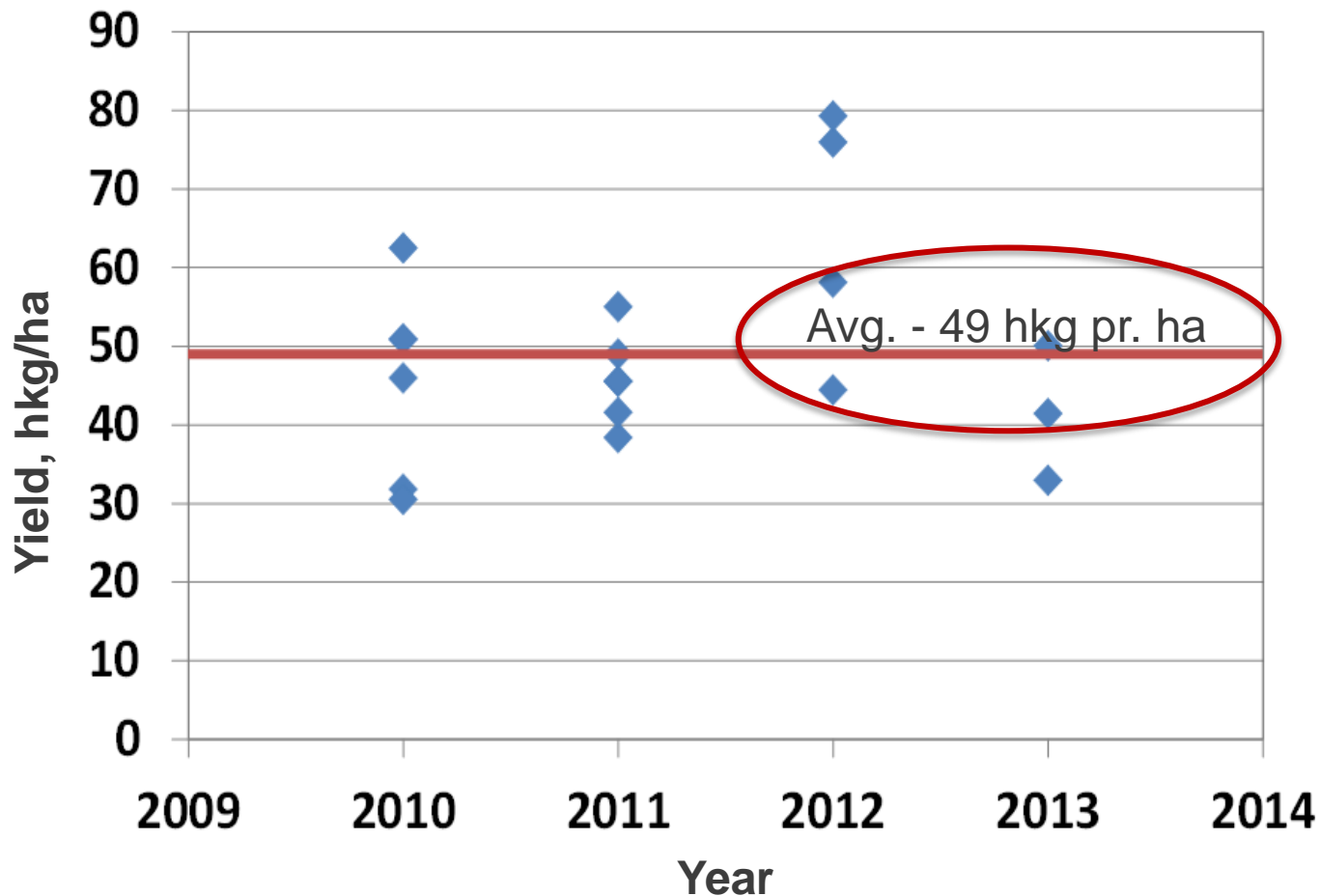
Limitation – grain legumes

- Yield stability
- Low competition against weed
- Soil born diseases
- Aphids and diseases
- Late harvest time
- Economic outcome for the farmer
- Market possibilities

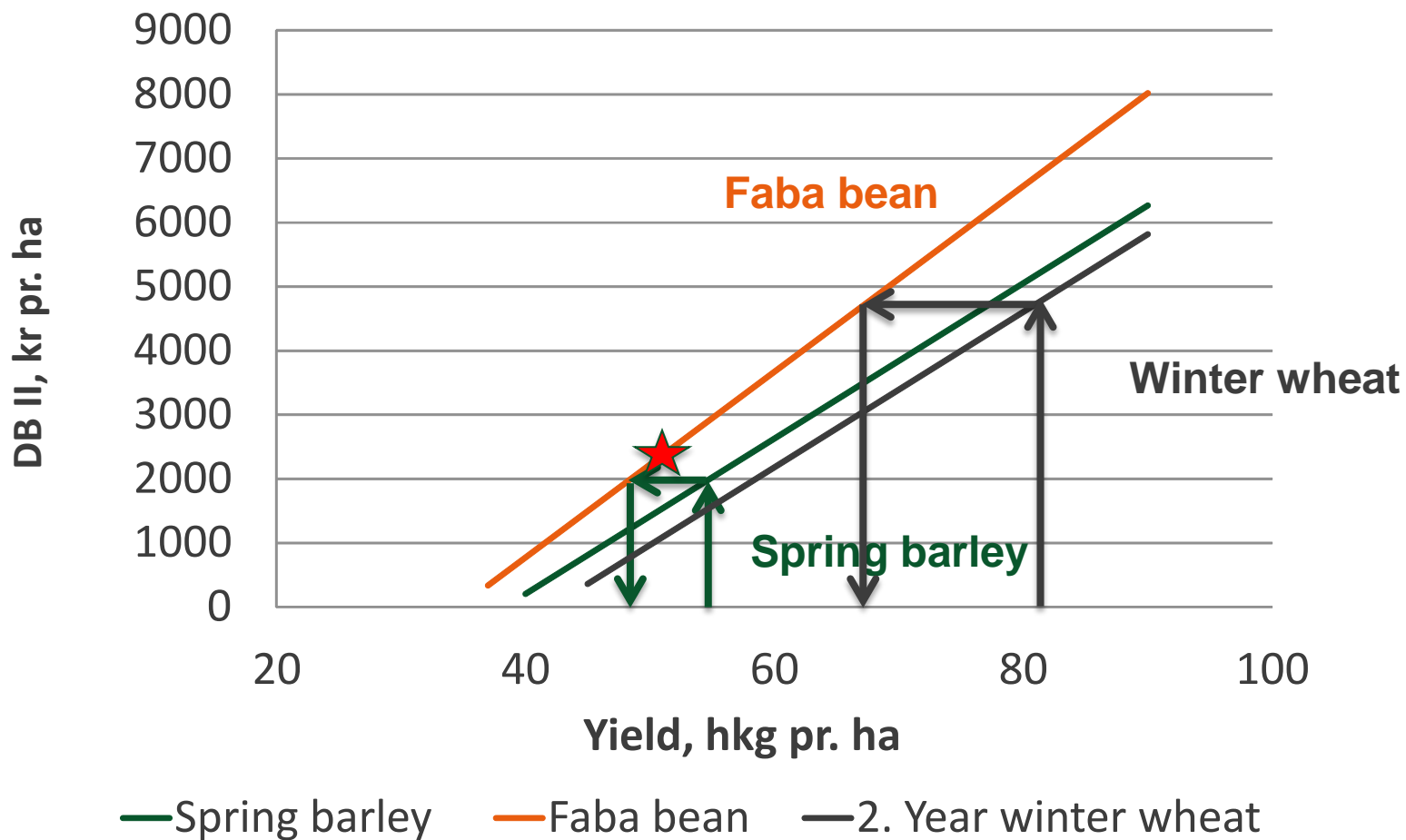
Faba beans – potential

- Demand for feed is growing
- The most stable grain legume under Danish conditions
- Outcome for the farmer – as good as spring barley
- Of interest for conventional farmers to meet the CAP demand for greening (more than one crop)
- Good precrop

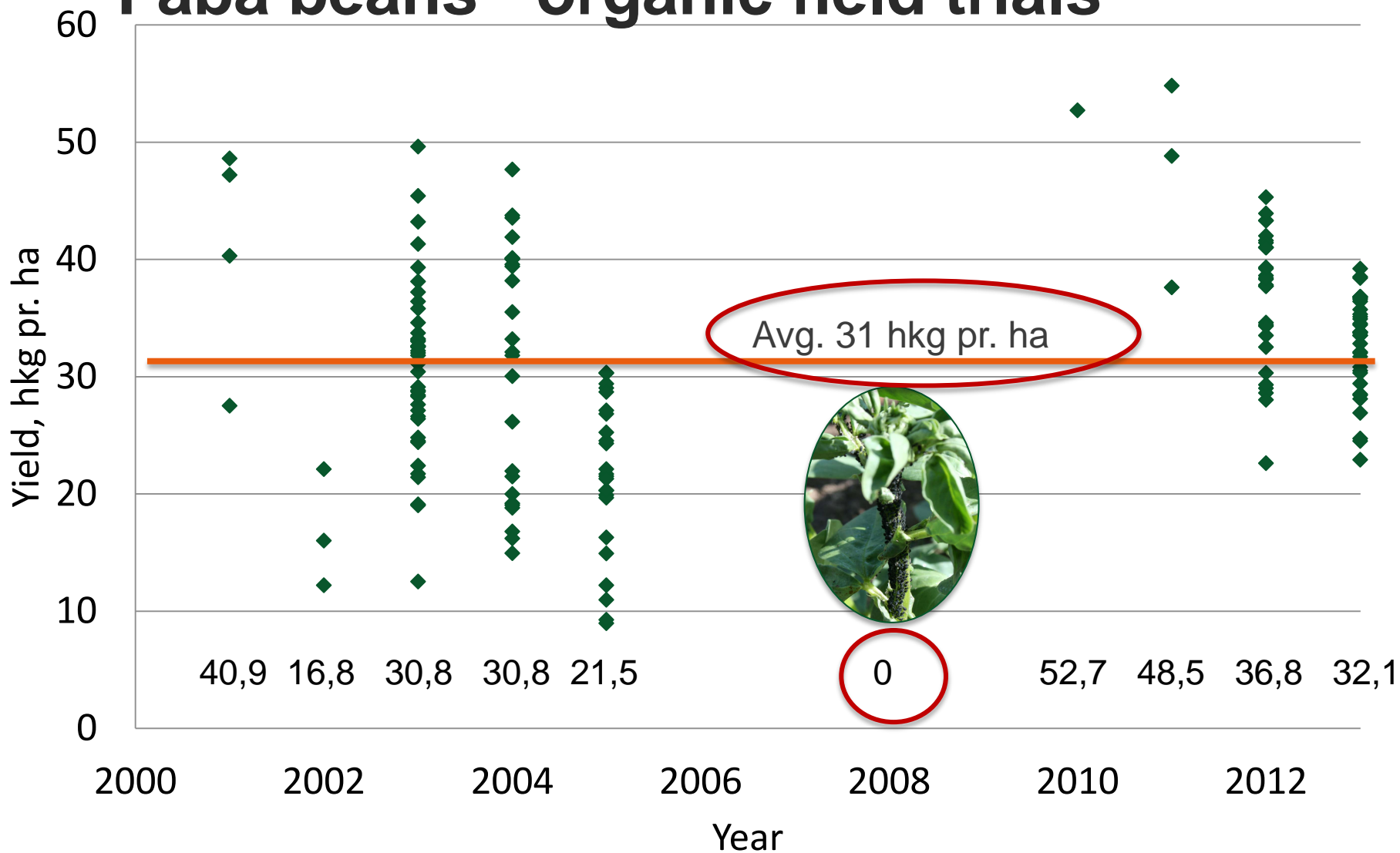
Faba beans - conventional field trials



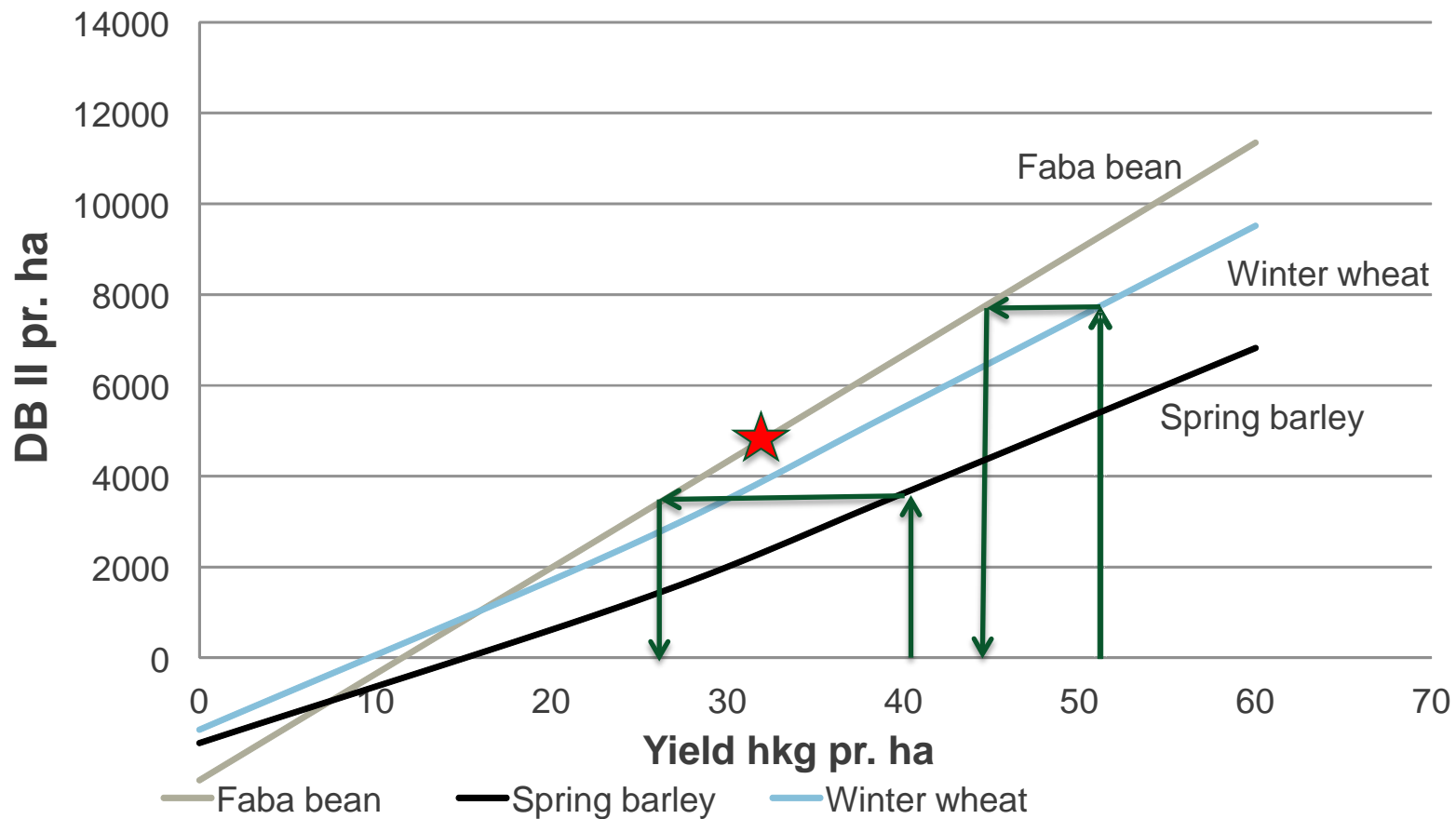
Outcome for the conventional farmer



Faba beans - organic field trials



Outcome for the organic farmer



Seven rules for growing Faba beans

- No perennial weed
- Good crop rotation – 5 year distance
- Only on clay soil with good water capacity or irrigated sandy soil
- Yearly sowing
- At least 40-50 plant pr. m²
- Deep sowing – 8 cm

Narrow leaved lupines – potential

- Protein crop for the sandy soils
- High protein content – lower yield is acceptable



Narrow leaved lupines

