

København 29. januar 2015

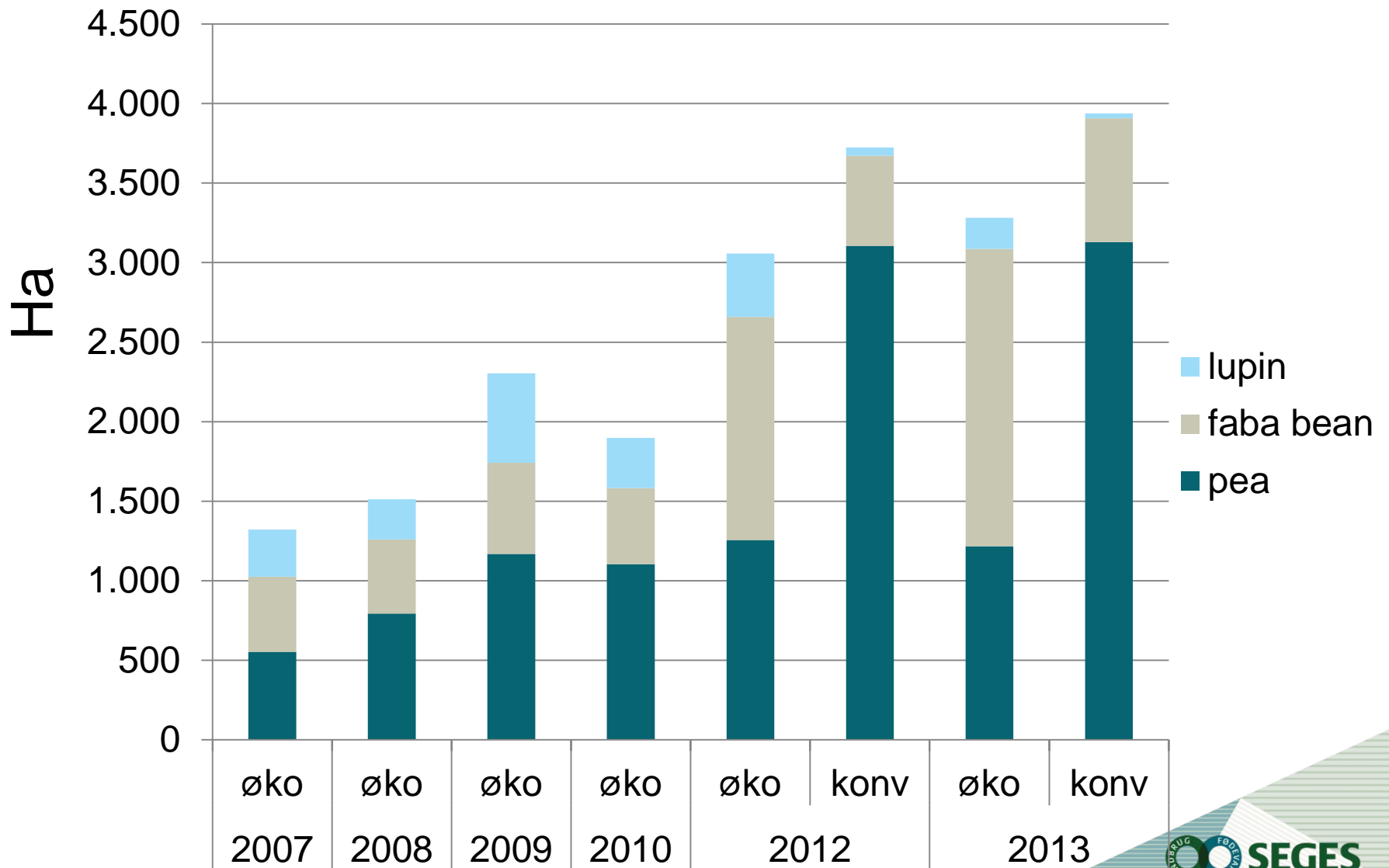
Inger Bertelsen

Økologi

FABA BEAN CULTIVATION IN DENMARK



GRAIN LEGUMES IN DENMARK

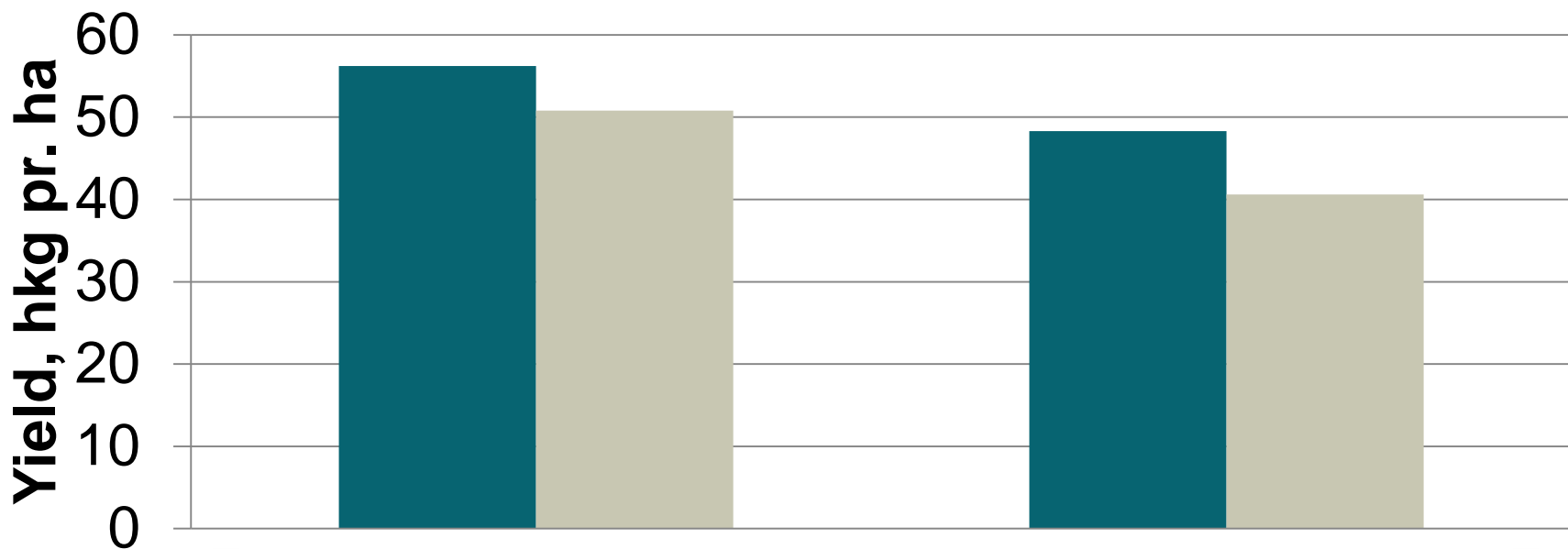


FABA BEANS – POTENTIAL

- 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
- Easy harvest and no lodging compared to field pea

FABA BEAN – FIELD PEA

6 conventional trials 2010-2012, 4 organic trials 2010-2011



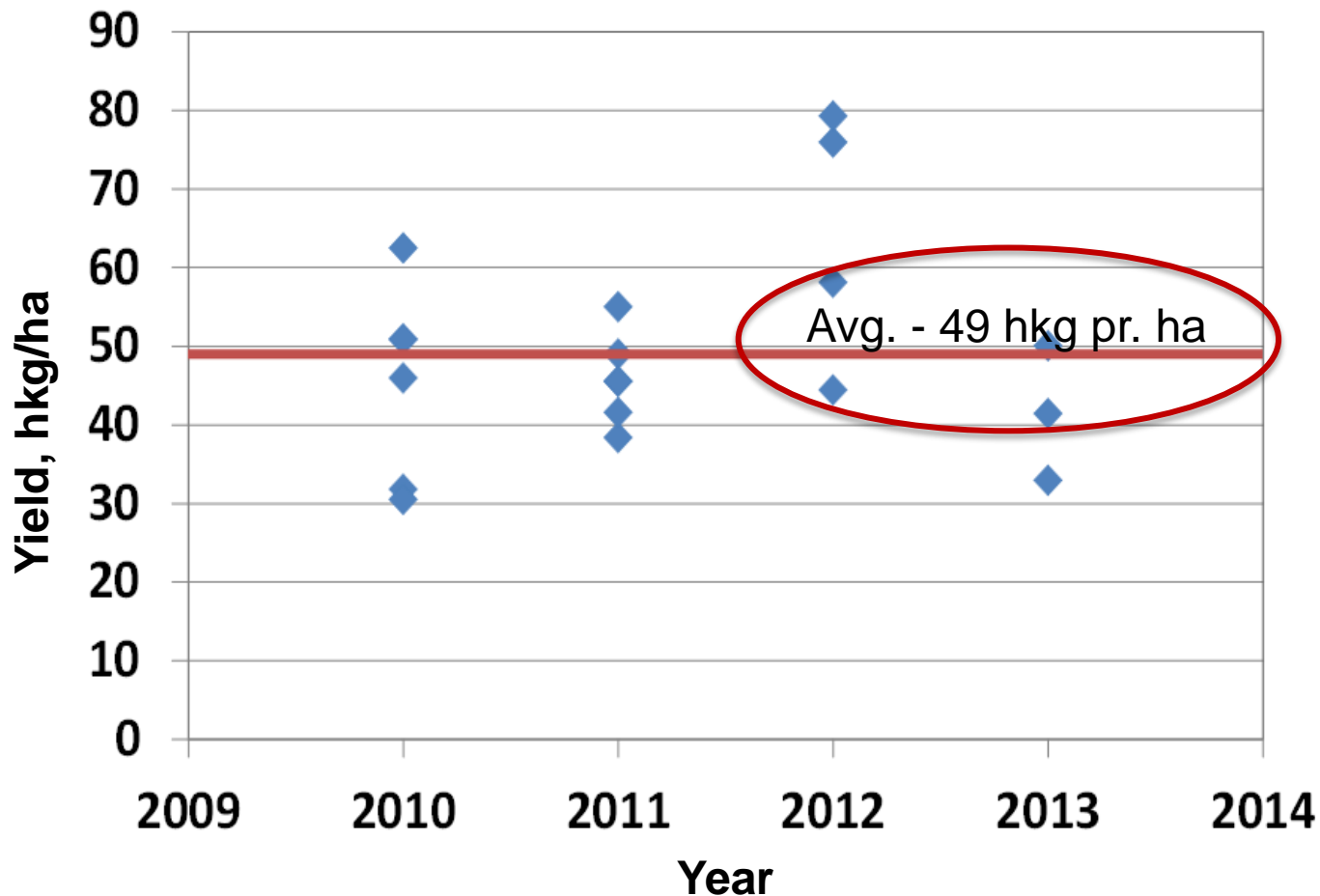
Hestebønne



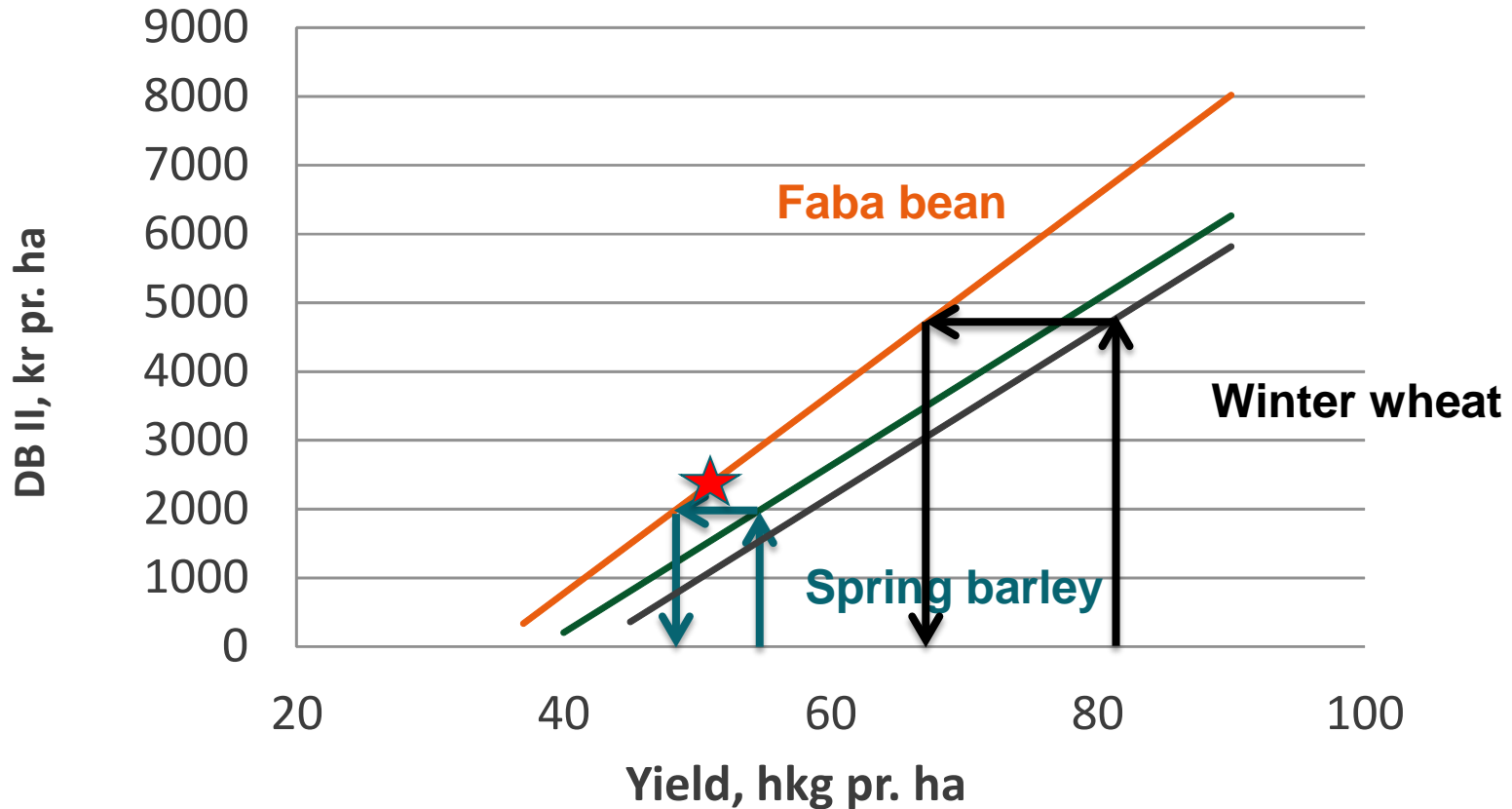
Markært

■ Konventionel ■ Økologisk

FABA BEANS - CONVENTIONAL FIELD TRIALS

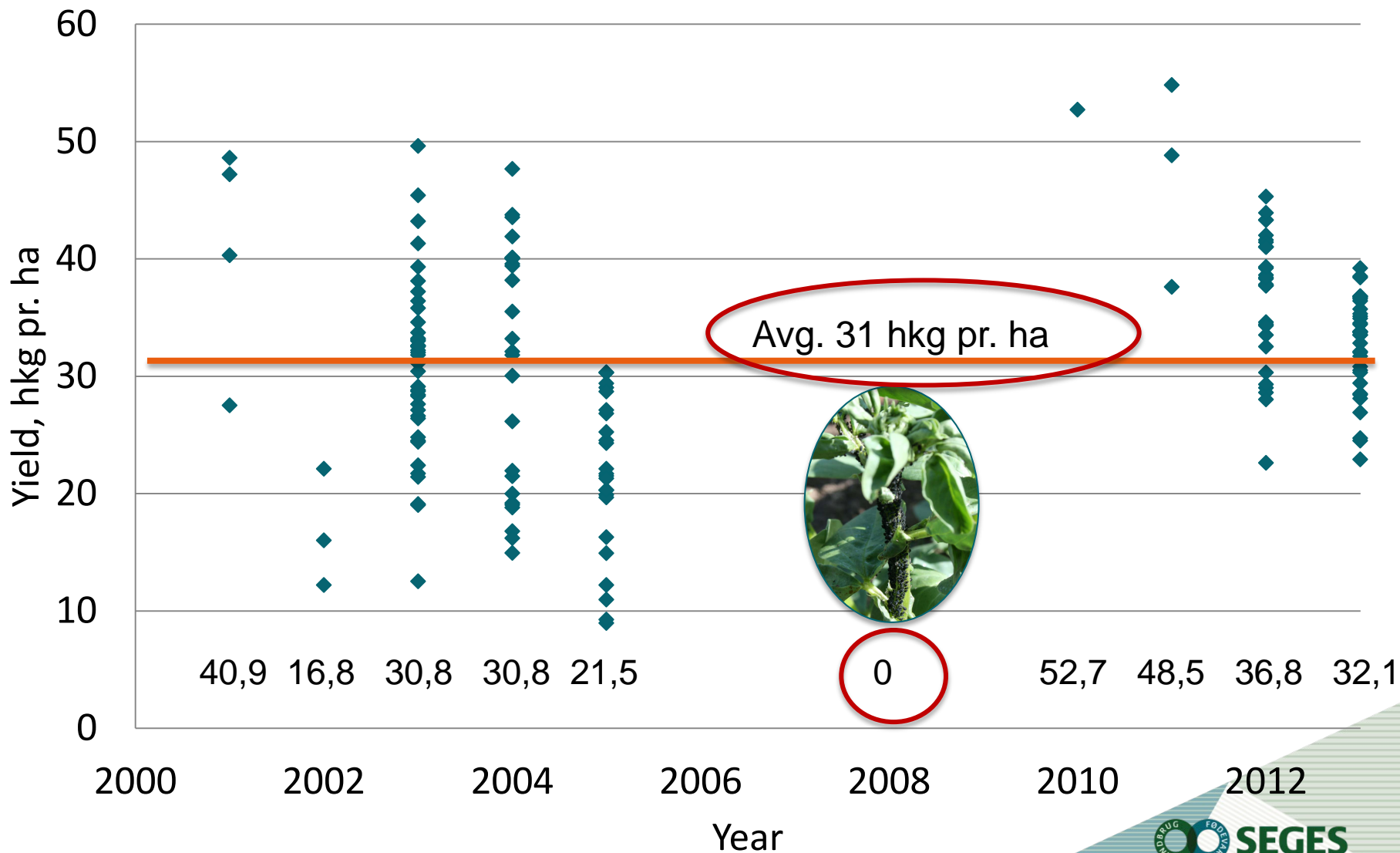


MARGIN FOR THE CONVENTIONAL FARMER

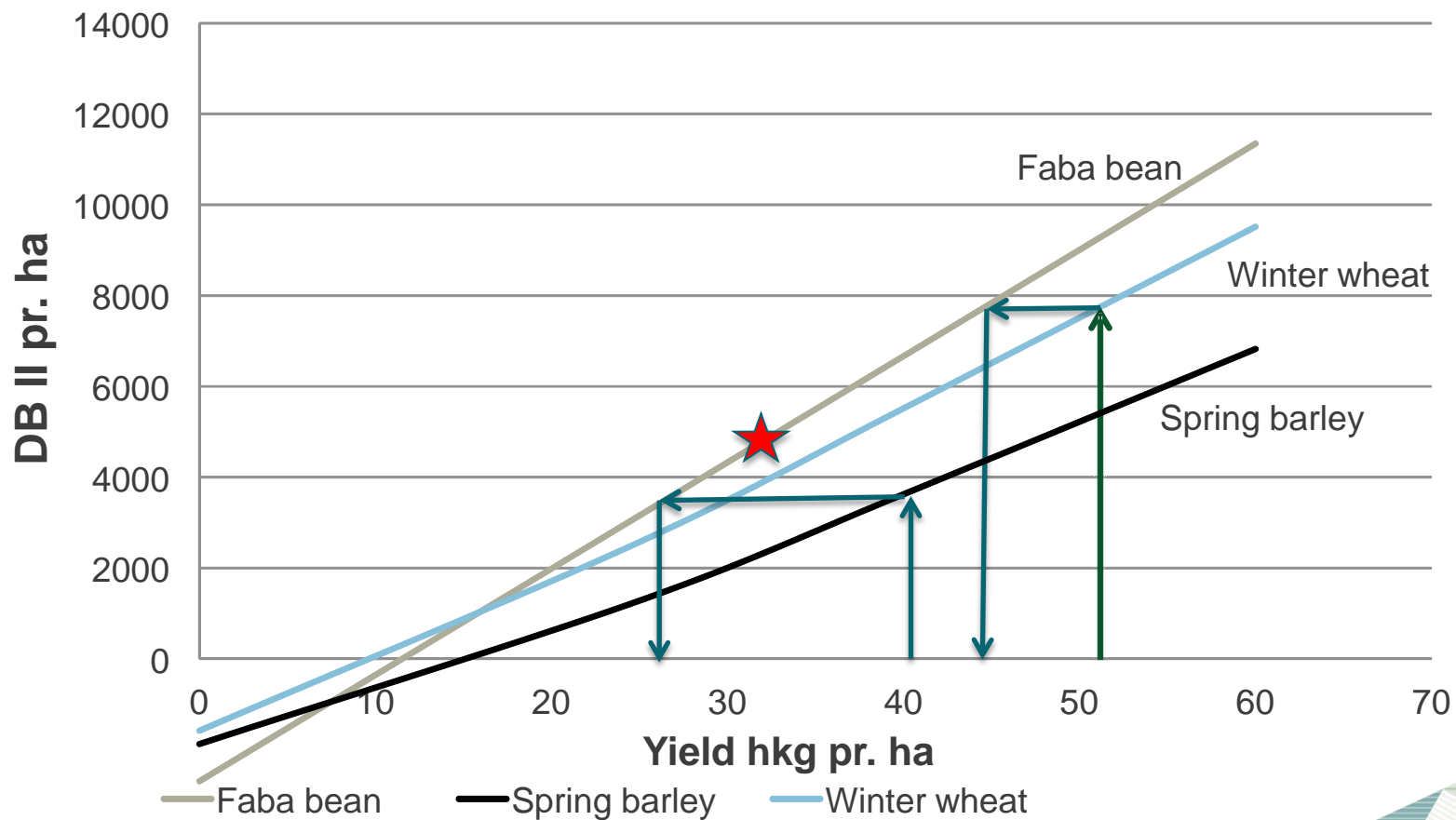


— Spring barley — Faba bean — 2. Year winter wheat

FABA BEANS - ORGANIC FIELD TRIALS



MARGIN 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
- Choose the right variety

SEED RATE

Seed rate	Plants pr. m ²	Yield, hkg pr. ha	Net yield*, hkg pr. ha
5 trials 2013, conventional			
20	26	40,5	-
40	46	48,7	6,3
60	64	52,1	7,8
<i>LSD</i>		2,3	
5 trials 2010-2011, organic			
40	46	48,9	-
60	65	53,0	1,8
<i>LSD</i>		10,5	

* Tkv. 500, markspiring 90 pct.,
 Konventionelt; udsæd 3,20 kr. pr. kg, afgrødepris 1,90 kr. pr. hkg
 Økologisk; udsæd 5,50 kr. pr. kg, afgrødepris 2,80 kr. pr. hkg

HARVEST TIME

	Date for maturity in trials
2010	6.-15. sept.
2011	5.-16. sept.
2012	15. sept. – 1. okt.
2013	25.-30. aug.
2014	14.-19. aug.



VARIETY CHOICE

Faba bean	TKV, g	Yield, hkg pr. ha	Protein, pct. of DM
2014. 7 organic trials			
Fuego	522	48,8	28,5
Divine ²⁾	492	45,3	29,5
Obelisk	530	44,9	28,7
Bioro	440	44,5	30,7
Banquise ¹⁾	478	43,3	28,6
Taifun ¹⁾	486	42,7	29,5
Columbo ¹⁾	478	38,0	31,4
<i>LSD</i>	<i>25</i>	<i>3,5</i>	<i>1,1</i>

1) Low in tannins

2) Without vicine and convicine