

Platinum pollination performance in fruit crops with the Flying Doctors[®]

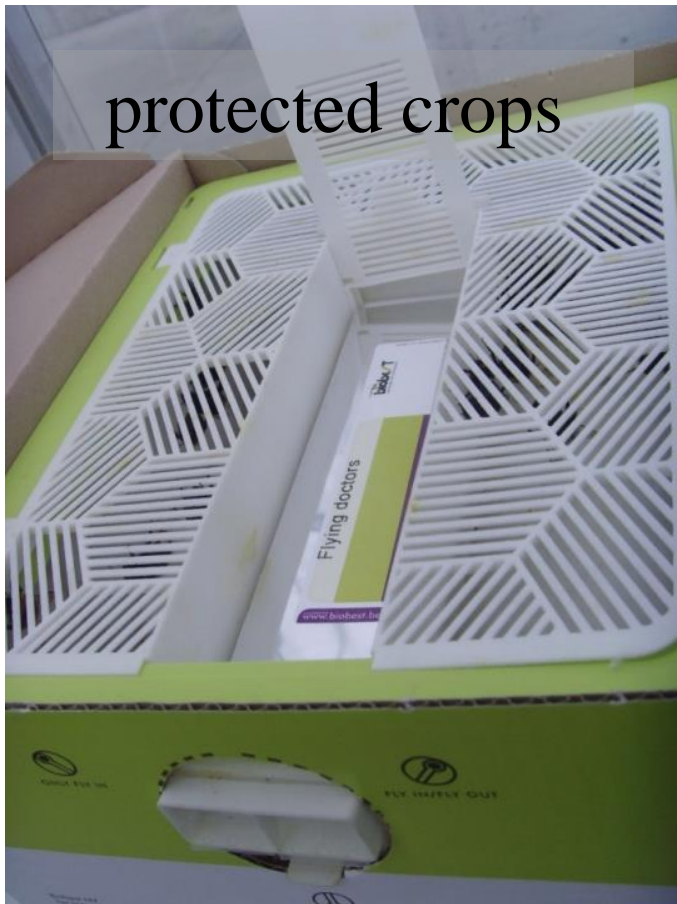


Fruit for the Future – JHI 2014



Biobest “Flying Doctors[®]” System

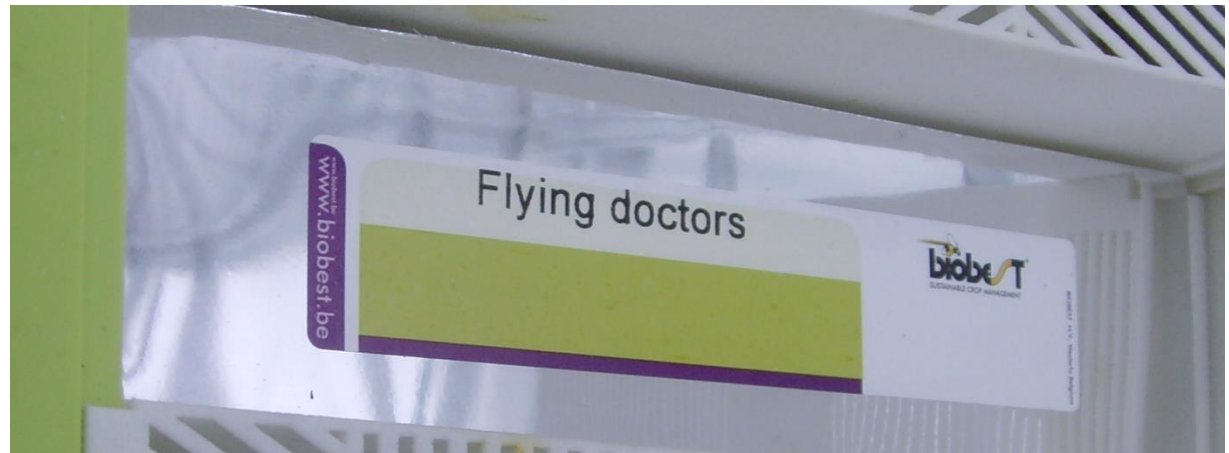
First commercially available bumblebee dispenser for pollination & biological control applications





Biobest “Flying Doctors[®]” System

- Patented dispenser system





Biobest “Flying Doctors[®]” System



- ## Applications
- Disease Control
 - Pest Control
 - Pollination



all bumblebee pollinated crops



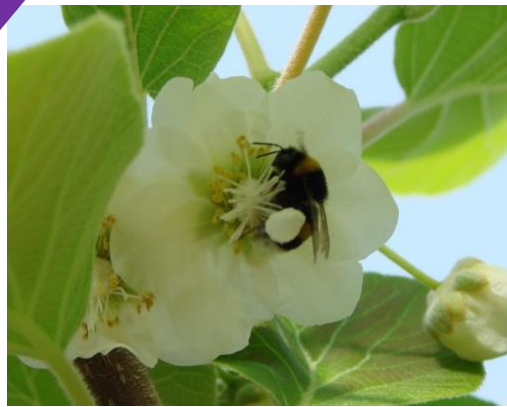
Advantages

- Targeted product delivery
- Strong reduction in product use
 - Continuous application
- Considerable savings in labour



Flying Doctors®

Flying Doctors®
+ pollen

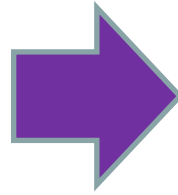


Targeted delivery

Improved quality



Biobest “Flying Doctors[®]” System



FILLING



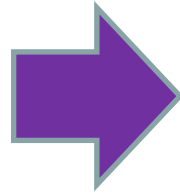
Biobest “Flying Doctors”[®] System



Biobest Flying Doctors
view inside the dispenser



Biobest “Flying Doctors[®]” System



FILLING



Biobest “Flying Doctors[®]” System

Patented two-way design...

**Designed
to ensure
highest level of
pollination activity**

**...ensures
product pick-up on
when
bumblebees
leave the hive**

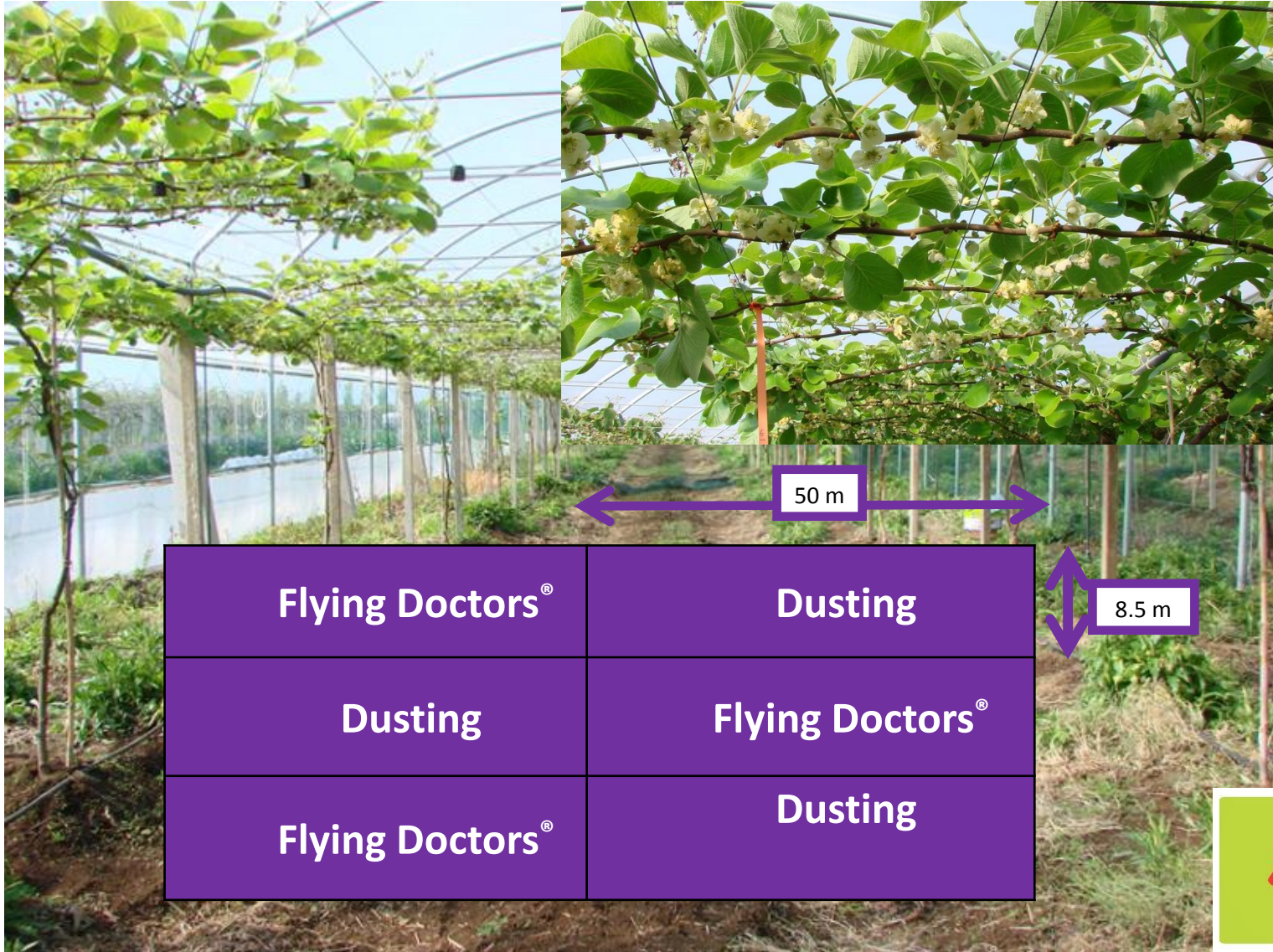




Kiwi



Kiwi pollination: trial var Hort16A



Flying Doctors®	Dusting
Dusting	Flying Doctors®
Flying Doctors®	Dusting





Kiwi pollination: trial var Hort16A

- Bumblebee activity and behavior
- Pollen disseminated into the crop by the bumblebees
- Fruit weight
- Number of seeds per fruit

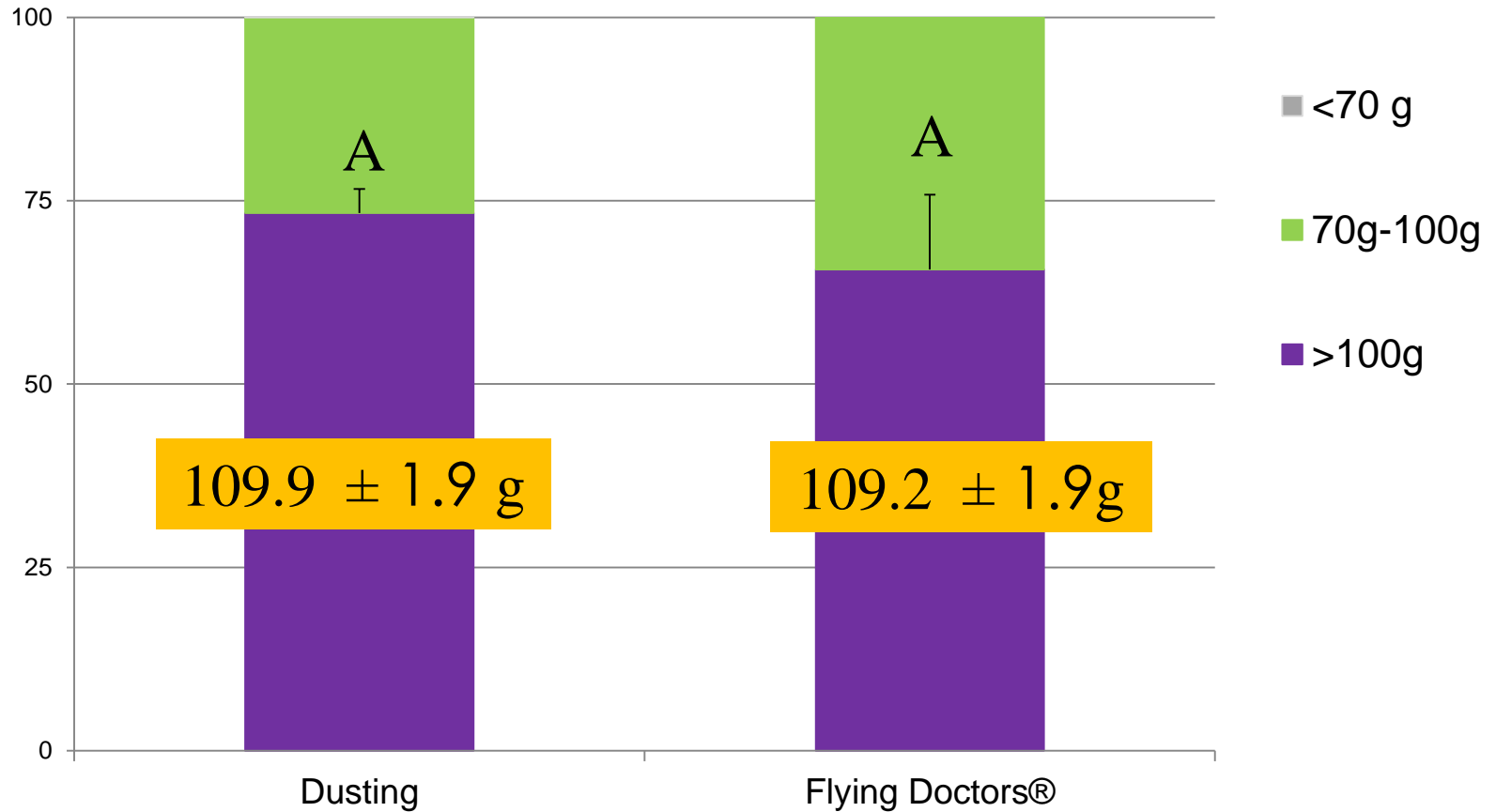
Attractiveness

Pollen use

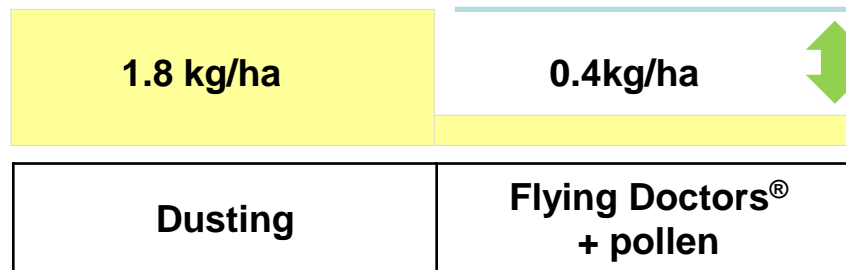
Fruit quality



Kiwi pollination: trial var Hort16A



Pollen usage:



-78%



Pear



Pear pollination: trial var Conference

Orchard 1 : Conference + Doyenné (50/50)



Out door crop

Bad weather
conditions

1 ha
only pear



Pear pollination: trial var Conference

- Bumblebee activity and corbicular load
- Pollen disseminated into the crop by the bumblebees
- Number of fruits per tree
- Fruit size
- Number of seeds per fruit

Attractiveness

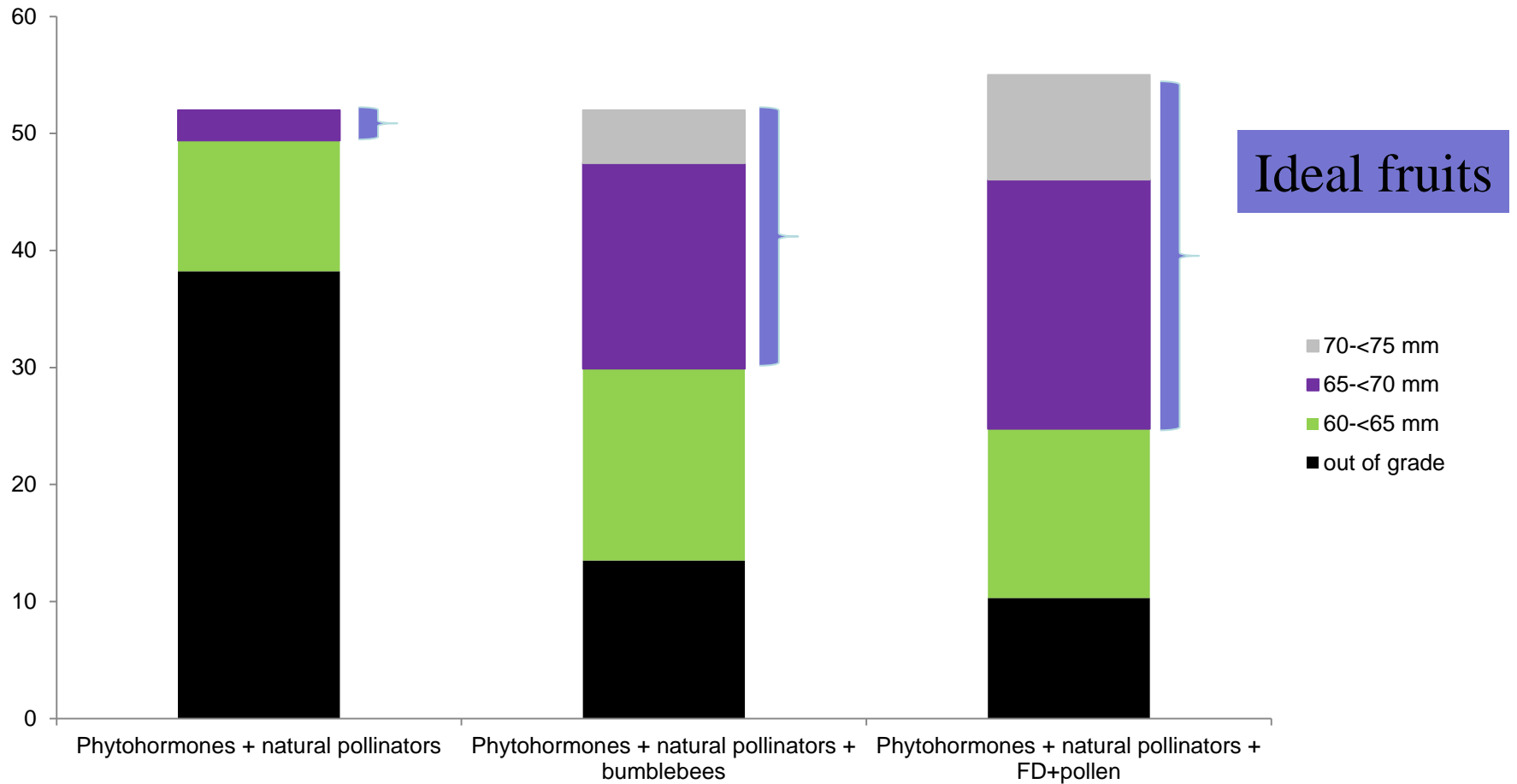
Pollen use

Fruit quality and
yield



Pear pollination: trial var Conference

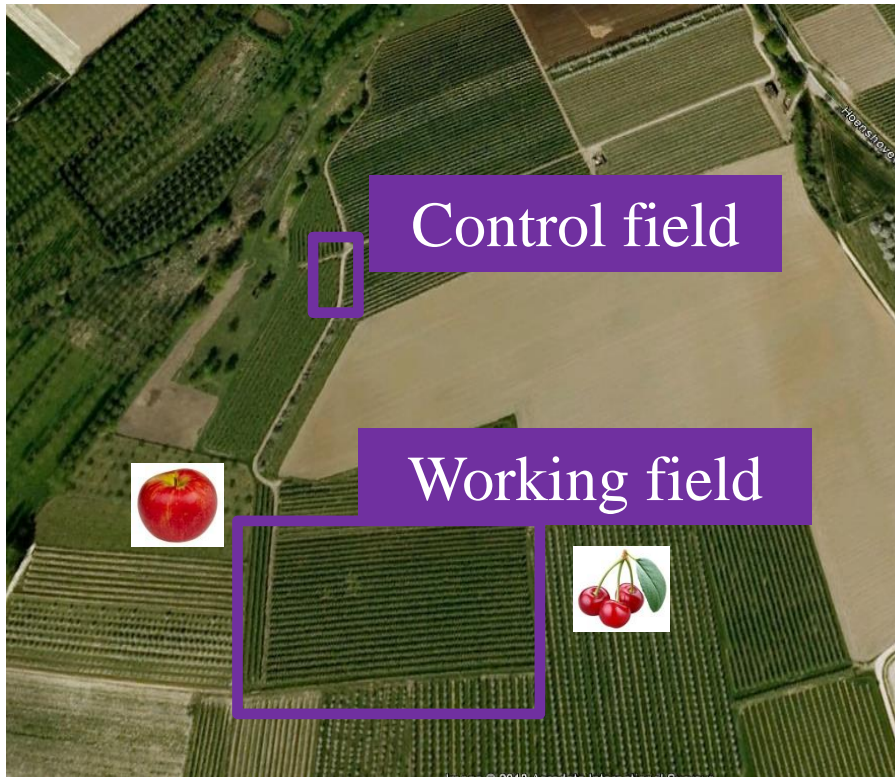
Ton/ha





Pear pollination: var Doyenné (no GA treatment)

Orchard 2: Doyenné (95%)



Control field

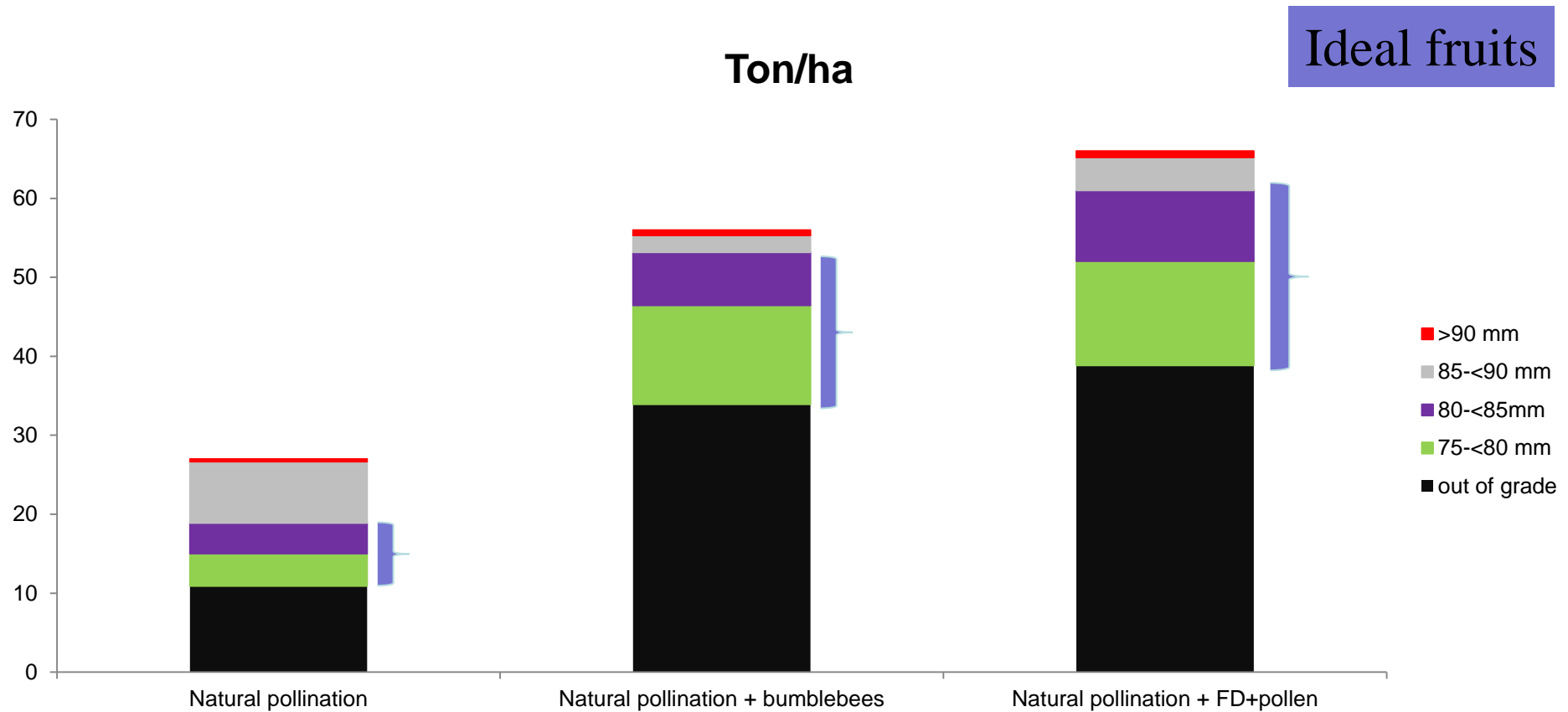
Working field

1 ha
not only pear





Pear pollination: var Doyenné (no GA treatment)





Biobest “Flying Doctors[®]” System

- Further Flying Doctors experiments in:
 - Pear
 - Kiwi and Kiwiberry
- Open field pollination efficiency in:
 - Cherry
 - Blueberry