



Mating disruption





European grapevine moth



Preventative effect - 3

The preventive effect is repeated for each period















Trichogramma





European grapevine moth



Usable except





Impossible with **Pyrethroids**



Preventative effect - 3















Microorganisms

B.bassiana





Mites













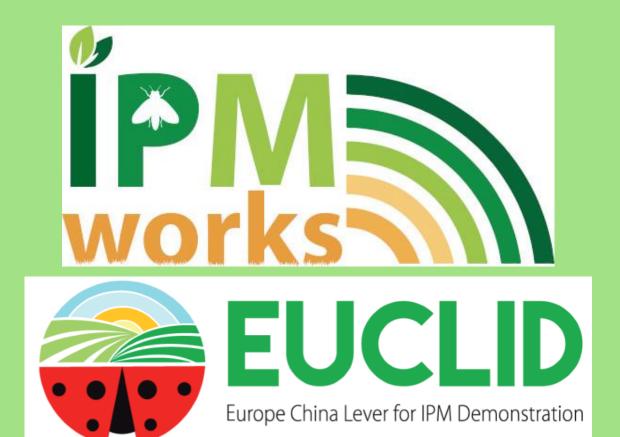


Curative effect

- 2

7 0



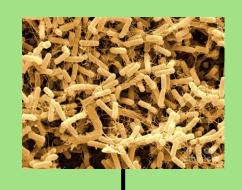


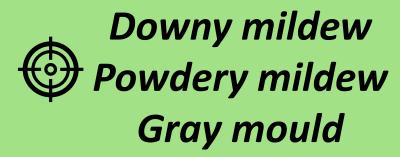


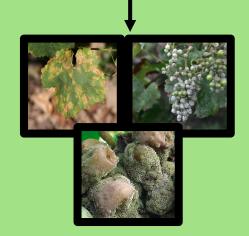




Microorganisms Bacillus amyloliquefaciens





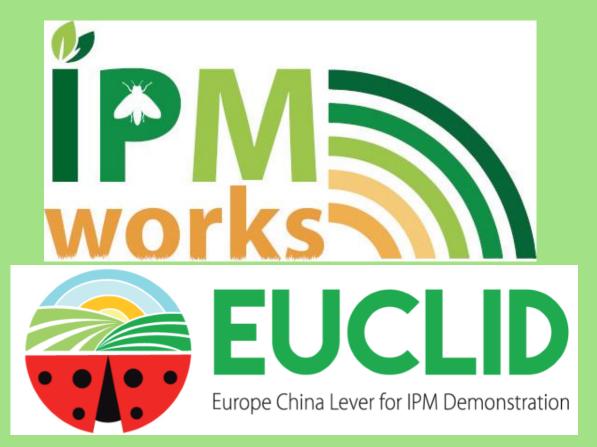




Preventative effect -2

7 0





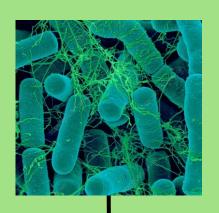






Biocontrol insecticide

Bacillus thuringiensis





European grapevine moth



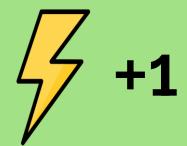
Maximum 2 treatments/year.





Curative effect

_ 4

















Sulphur





Powdery mildew Mites

Usable except





Cost and Time x2 when

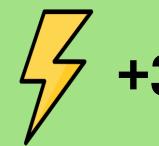








Curative effect -1







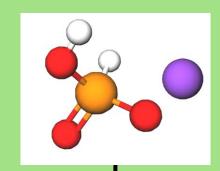








Phosphonates



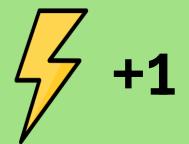


Downy mildew

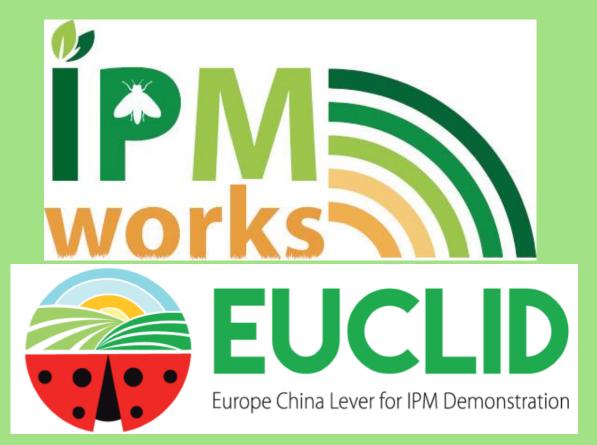




Preventative effect -2 with copper





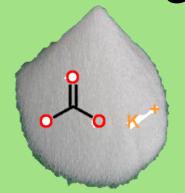








Potassium hydrogen carbonate





Powdery mildew Gray mould









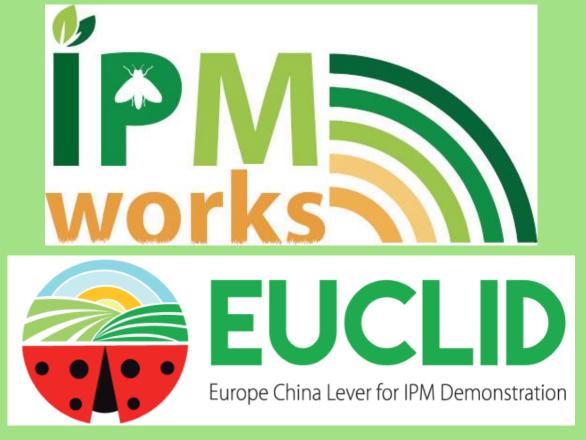




Curative effect -1
Only in association with sulphur















Essential oil

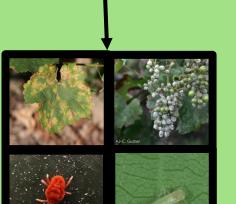
Sweet orange





Downy mildew
Powdery mildew
Mites
Vine leafhopper

Usable only











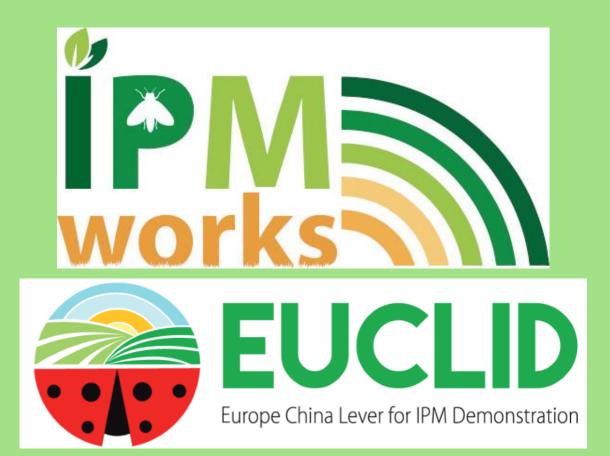


Curative effect

-3













Paraffin oil





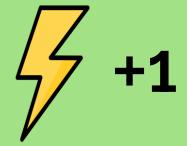
Mites





Preventative effect

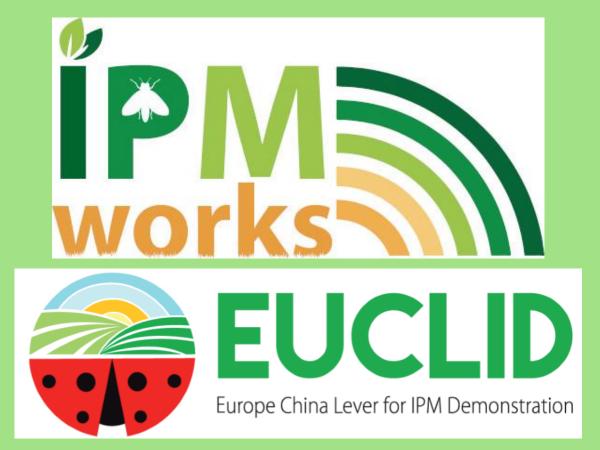
Prevents primary installation





Crop cycle : 📝











Rape oil





Mites





Preventative effect

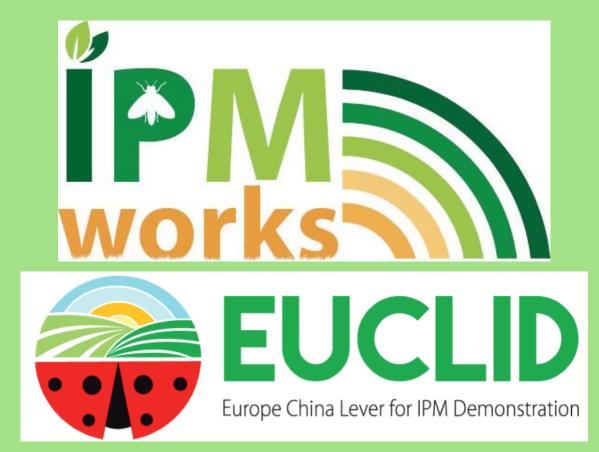
Prevents primary installation





Crop cycle : 📝











Vegetal oils

Clove, Geranium, Thyme





Gray mould









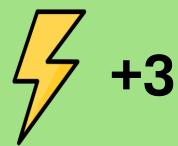






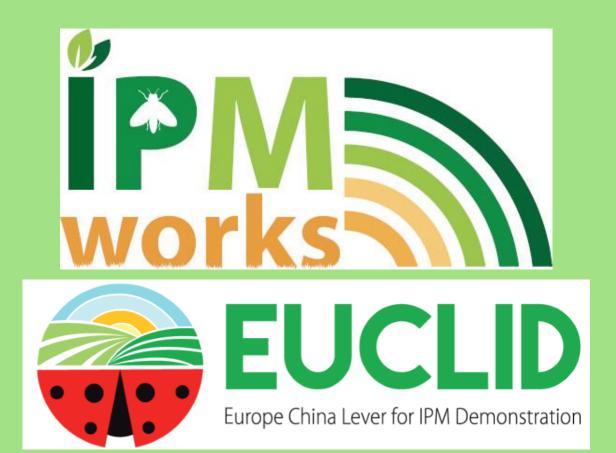
Curative effect

-2





Crop cycle: 4 - 5

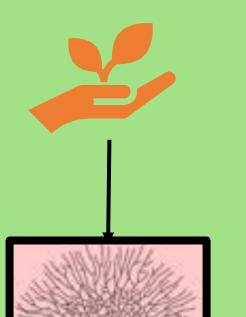








Elicitors Defense stimulators





Powdery mildew Downy mildew









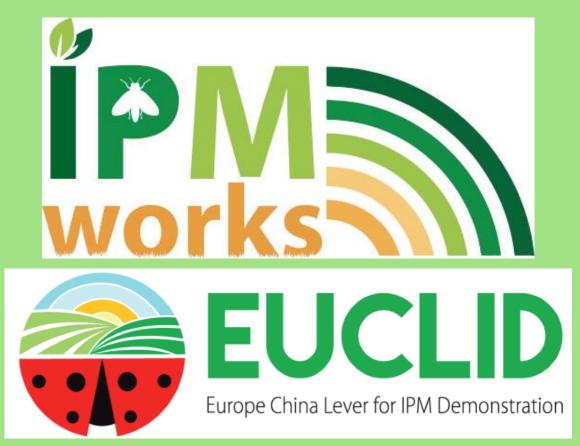




Preventative effect -2













Basic substances

Saccharose - Fructose





Downy mildew



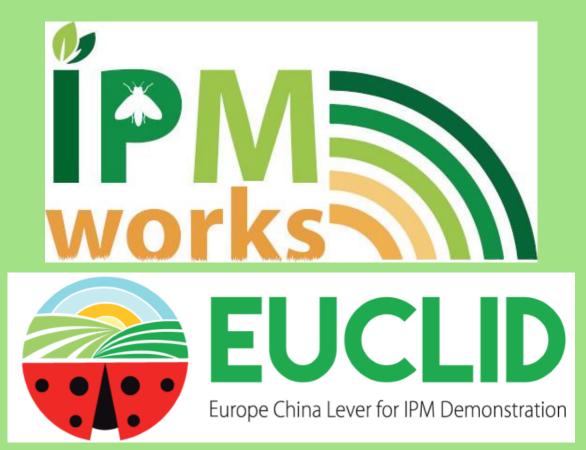


Preventative effect -1





Crop cycle: 3









Basic substances

Cow milk - Lactoserum





Powdery mildew

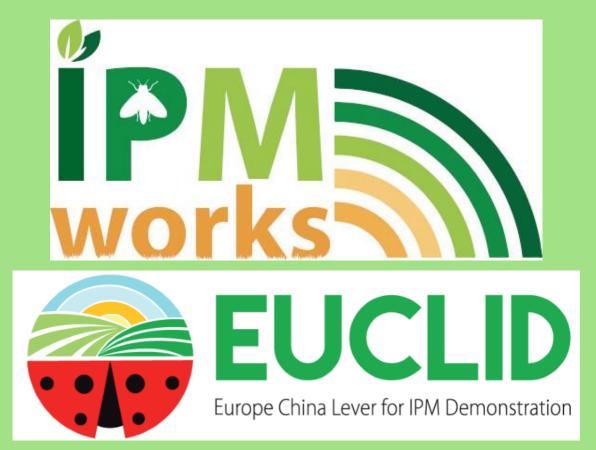




Preventative effect -1









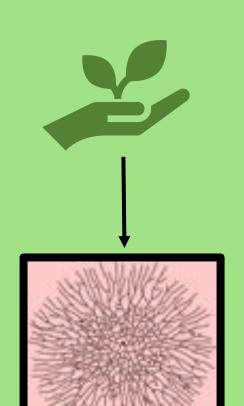




Per

Basic substances

Chitosan – Mg hydroxyd





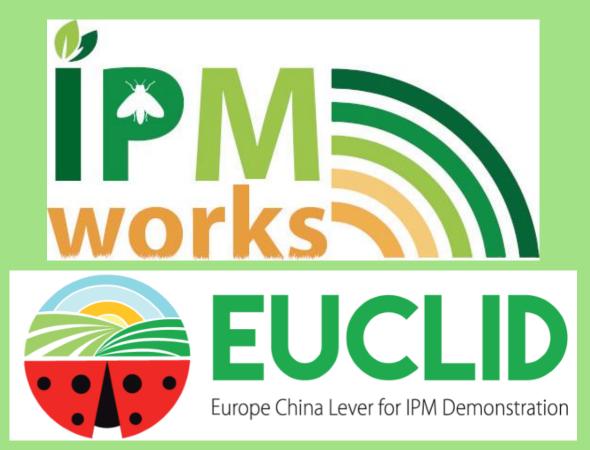
Powdery mildew
Downy mildew
Gray mould
Black rot



Preventative effect -1













Basic substance Urtica





Mites

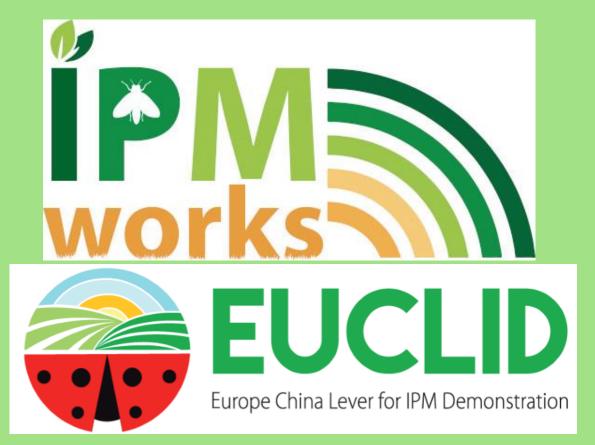


Preventative effect -1





Crop cycle: 3-4









Copper



Downy mildew Black-rot







+2 in period 4 and 5



- Preventative effect 2
- + Curative effect -1















Fungicide anti-Botrytis



Gray mould

Maximum 2 treatments/year



x2 in periods 4 and 5





Curative effect

_ 4

















Polyvalent fungicide



Downy mildew Powdery mildew Black-rot



*for three pathogens

Maximum 2 treatments/year









Curative effect - 4

















Acaricids





Mites



Maximum 2 treatments/year





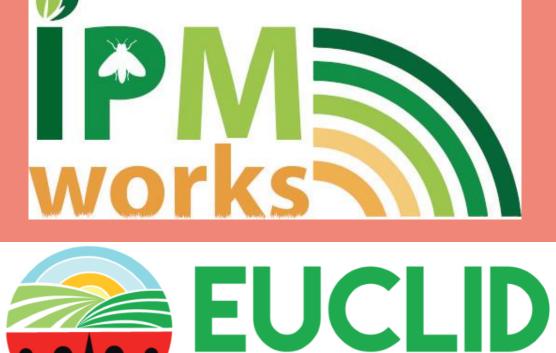


Curative effect











Europe China Lever for IPM Demonstration







Growth regulator insecticide (ex Tebufenozide)





European grapevine moth



Maximum 2 treatments/year









Preventative effect



Curative effect - 1

















Neurotoxic insecticide Pyrethroids





European grapevine moth Vine leafhopper



Maximum 2 treatments/year Cost and Time x2 when







Curative effect

- 4













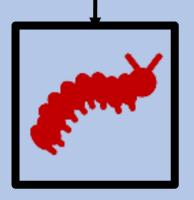


Ecological management





European
grapevine moth
Mites
Vine leafhopper





Preventative effect - 2



Curative effect - 1















Spraying Decision Support System





Mites

European grapevine moth Downy mildew Powdery mildew



Play with pesticide or biocontrol product to reduce impacts















Low drift sprayer





All



















Green pruning





Downy mildew
Powdery mildew
Gray mould
Black rot



Only 1 reduction or prunning / year



Preventative effect -2



Curative effect -1















Reducing Vigour of the vine





Mites

Powdery mildew **Gray mould**





Only 1 reduction or prunning / year



Preventative effect -2









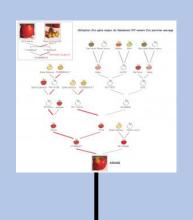






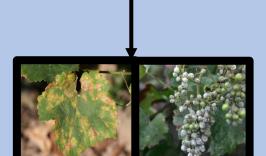


Resistant variety





Powdery & Downy mildews

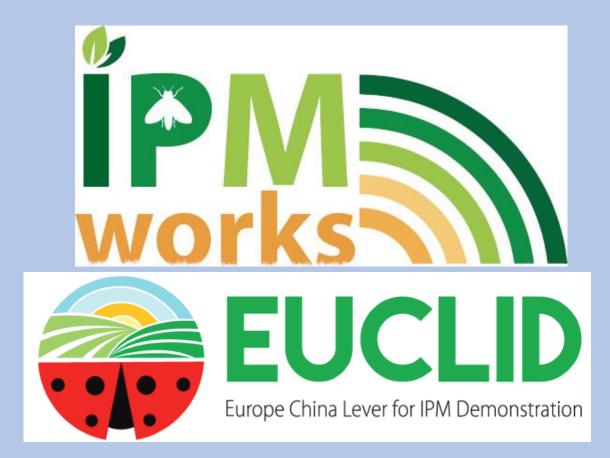




- At each period — 3
- You have to combine with other solutions twice during the season to keep the efficacy > if not - 2













Eco-Grazing









Preventative effect -2

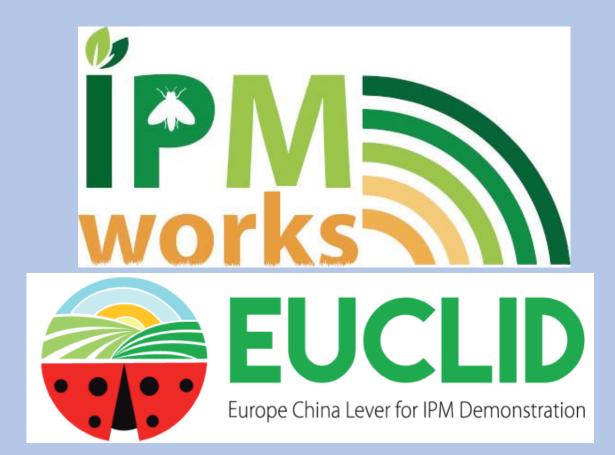


Curative effect -1





Crop cycle: 3







AEI > birds & chiropterans



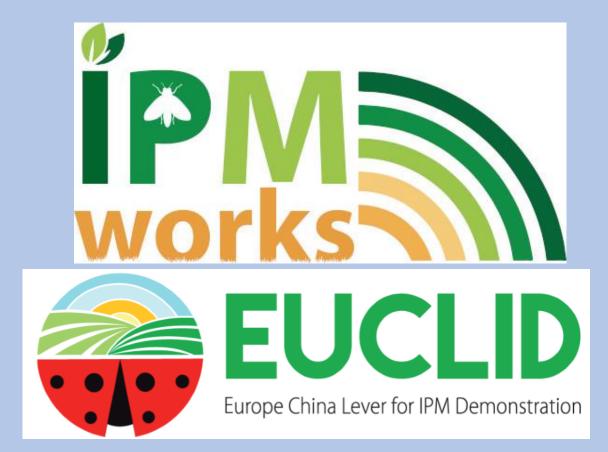












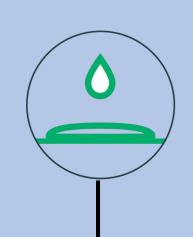






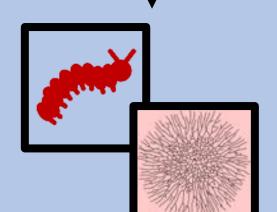
+1

Adjuvant



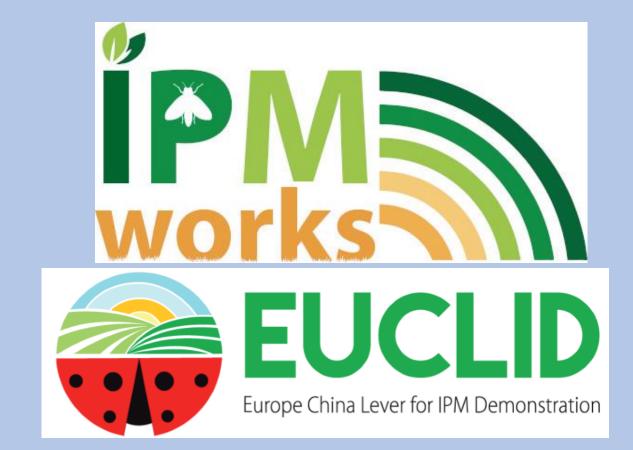






Play with biocontrol product to be applicable by dry weather













+1

Biostimulant



All



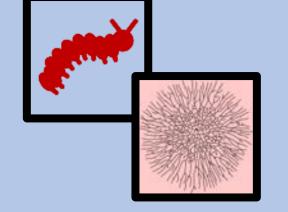


Preventative effect



Alone if risk ≤1 and pressure is in the light yellow zone





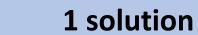


Can increase the efficiency of microorganisms or natural substances

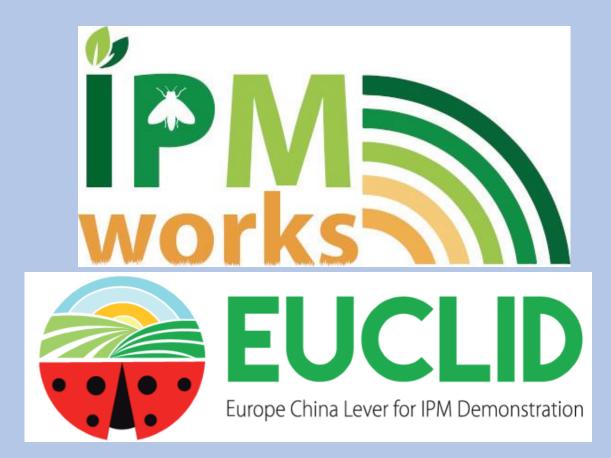
+1



maintains
the durability of the
variety resistance
over time













Viti tunnel





Downy mildew Gray mould



Powdery mildew +1 at each period

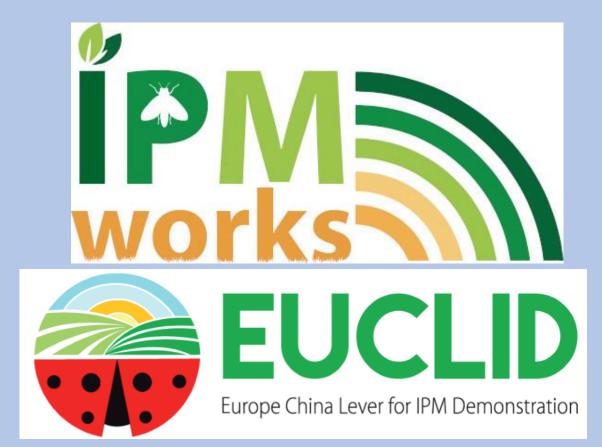


Preventative effect -2

At each period













UV-C



Powdery mildew
Downy mildew



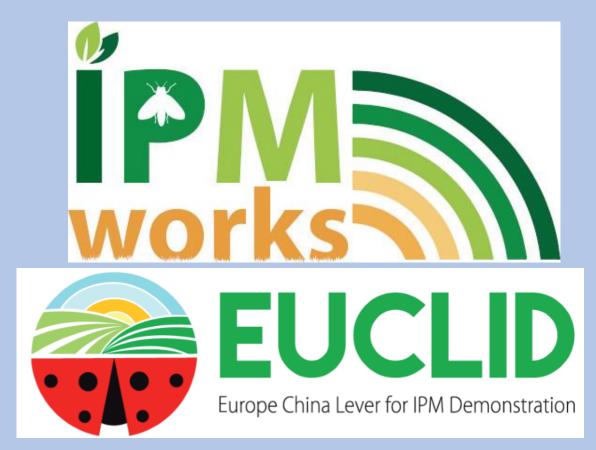
Preventative effect -4





7 0











Leaf pick-up





Downy mildew Black rot



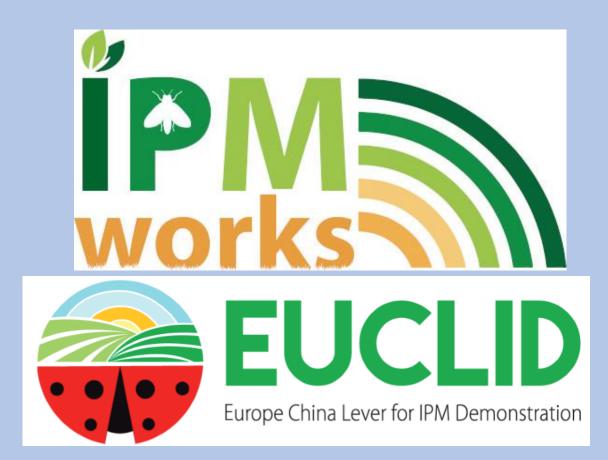


Preventative effect

Prevents primary installation













Augmentorium





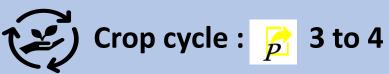




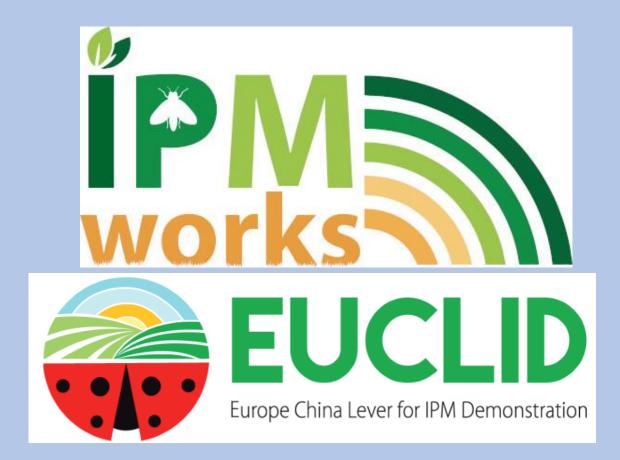
Preventative effect

Prevents primary installation











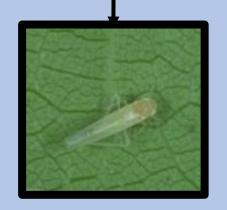




Rock powder Kaolin



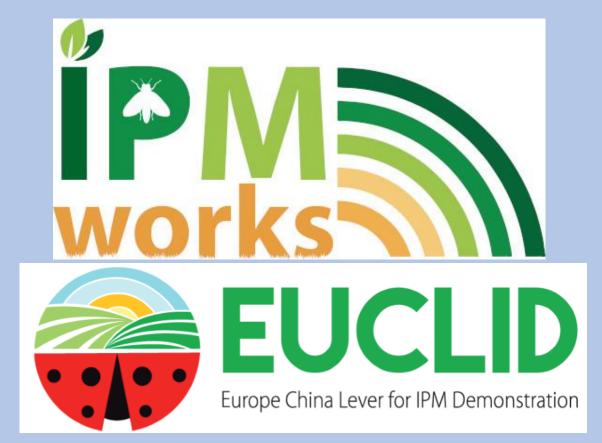








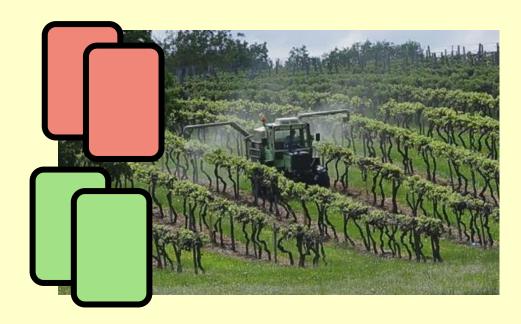








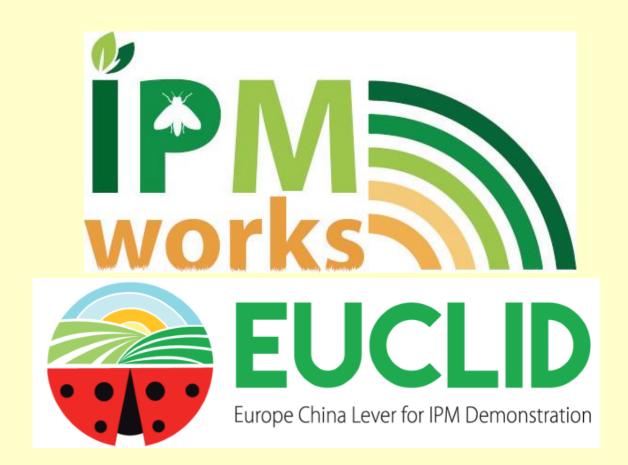
Associated treatments





You win 1 time unit when you spray with 2 biocontrol or 2 chemicals products

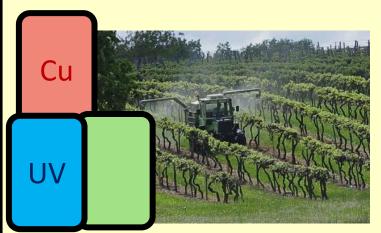








Biocontrol product or UV + ½ dose of copper





Downy mildew



Preventative effect

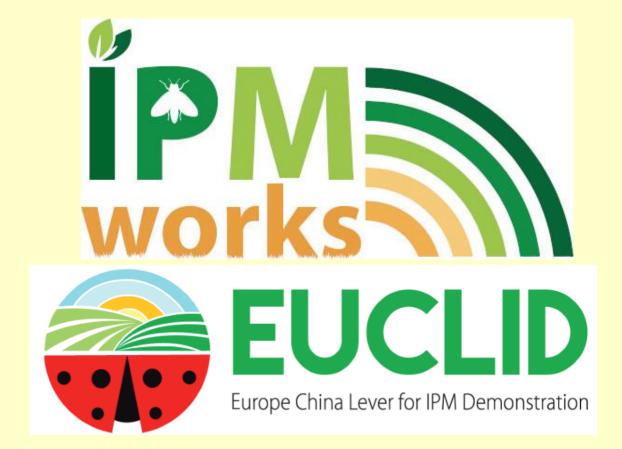




You win 1 time unit when you spray these associations



And you reduce impact of copper







Periods: 3 to 5