



5



5

# Confusion sexuelle



*Tordeuse de la grappe*



*Effet préventif*

- 3

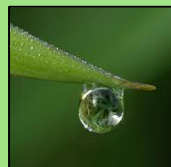
*Effet pour toutes les périodes*

Tox



0

Rés



0

Eco



0

Aux



0



Périodes :



- 1 & 2





3



3

# Trichogrammes



**Tordeuse de la grappe**



**Utilisable sauf**



**Incompatible avec  
Pyrethrinoïdes**



**Effet préventif**

**périodes suivantes**

**PJ+1 - 3**

**PJ+2 - 2**

**PJ+3 - 1**

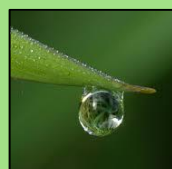
**PJ : période jouée**

**Tox**



**0**

**Rés**



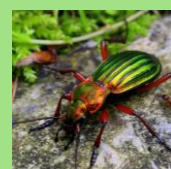
**0**

**Eco**



**0**

**Aux**



**-2**



**Périodes : 2 à 4**





3



2

# Microorganismes

*B.bassiana*



*Acarions*



*Utilisable si*



*Effet curatif*

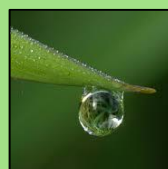
-2

Tox



0

Rés



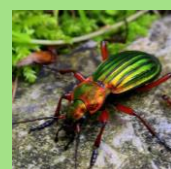
0

Eco



0

Aux



0



Périodes : 2 à 5





3



2

# *Microorganismes*

## *Bacillus amyloliquefaciens*



*Mildiou*  
*Oïdium*  
*Pourriture grise*



*Effet préventif*

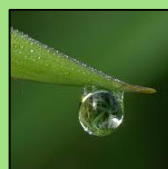
-2

Tox



0

Rés



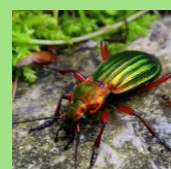
0

Eco



0

Aux



0



Périodes : 3 & 4



# EUCLID

Europe China Lever for IPM Demonstration





# *Insecticide de biocontrôle*

*Bacillus thuringiensis*



*Tordeuse de la  
grappe*



*Maximum 2  
traitements / an.*



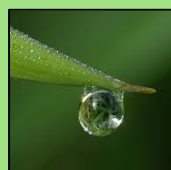
*Effet curatif - 4*

Tox



0

Rés



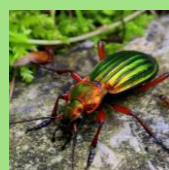
0

Eco



+ 2

Aux



0



Périodes : 2 à 5





# Soufre

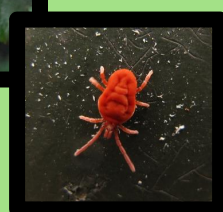


Oïdium  
Acarie

Utilisable sauf



Coûts x2 quand



Effet préventif - 2



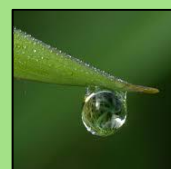
Effet curatif -1

Tox



+1

Rés



0

Eco



+2

Aux



+2



Périodes : 1 à 5



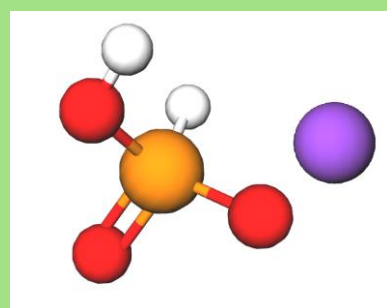


2



2

## Phosphonates



*Mildiou*



*Effet préventif*

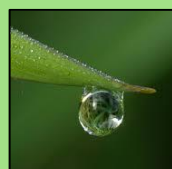
-2

Tox



0

Rés



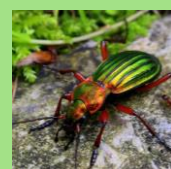
+2

Eco



0

Aux



0



Périodes : 3 & 4



**EUCLID**

Europe China Lever for IPM Demonstration



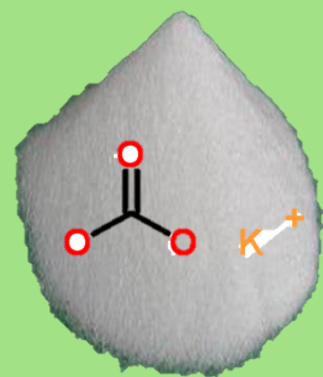


3



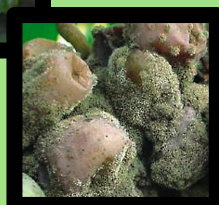
2

# Hydrogénocarbonate de Potassium



**Oïdium**  
**Pourriture grise**

**Utilisable sauf**



**Effet préventif** - 2



**Effet curatif** -1

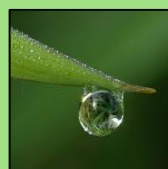
**Si association avec Soufre**

**Tox**



0

**Rés**



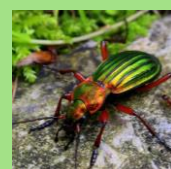
0

**Eco**



0

**Aux**



0



Périodes : 1 à 5



**EUCLID**

Europe China Lever for IPM Demonstration





3



2

# *Huile essentielle*

*Orange douce*



*Mildiou*

*Oïdium*

*Acarions*

*Cicadelle des grillures*

*Utilisable si*



*Effet curatif*

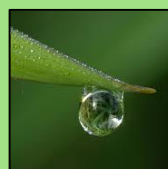
-3

Tox



+2

Rés



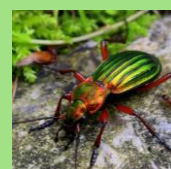
0

Eco



+2

Aux



+2



Périodes : 1 à 4





# *Huile de Paraffine*



*Acarie*s



*Effet préventif*

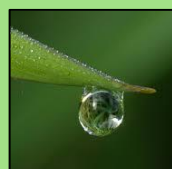
*Empêche les  
contaminations l<sup>res</sup>*

Tox



+2

Rés



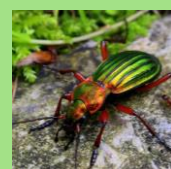
0

Eco



0

Aux



0



Période :





2



2

## *Huile de colza*



*Acariens*



*Effet préventif*

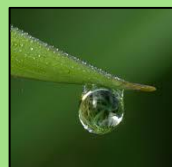
*Empêche les  
contaminations l<sup>res</sup>*

Tox



0

Rés



0

Eco



0

Aux



0



Période :





3



2

# Huiles végétales

*Girofle, Geranium, Thym*



*Pourriture grise*



*Utilisable si*



*Effet curatif*

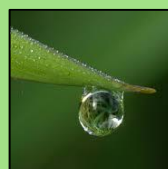
-2

Tox



+2

Rés



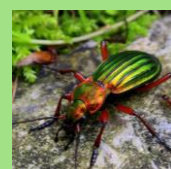
0

Eco



+1

Aux



+1



Périodes : 4 & 5





3



2

## SDP

*Stimulateurs de défense des plantes*



*Oïdium  
Mildiou*



*Utilisable si*



*Effet préventif*

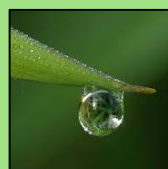
-2

Tox



0

Rés



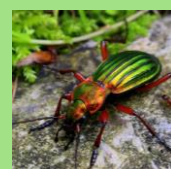
0

Eco



0

Aux



0



Périodes : 1 à 4





1



2

# Substances de base

Saccharose - Fructose



Mildiou



Effet préventif

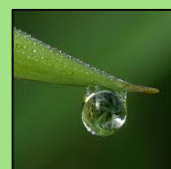
-1

Tox



0

Rés



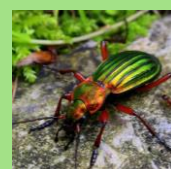
0

Eco



0

Aux



0



Périodes : 1 à 3



EUCLID

Europe China Lever for IPM Demonstration





1



2

# Substances de base

Lait de vache – Petit lait



Oïdium



Effet préventif

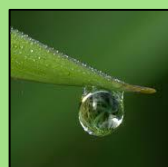
-1

Tox



0

Rés



0

Eco



0

Aux



0



Périodes : 1 à 3



EUCLID

Europe China Lever for IPM Demonstration





1

Par  
bioagresseur



2

# Substances de base

Chitosan – Hydroxyde de Mg



Oïdium  
Mildiou  
Pourriture grise  
Black rot



Effet préventif

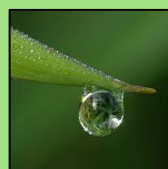
-1

Tox



0

Rés



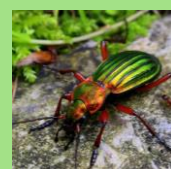
0

Eco



0

Aux



0



Périodes : 1 à 4





1



2

# Substances de base

Ortie



Acarie



Effet préventif

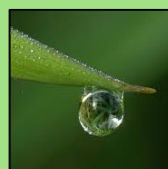
-1

Tox



0

Rés



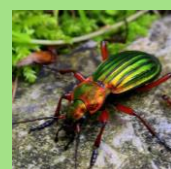
0

Eco



0

Aux



0



Périodes : 3 & 4



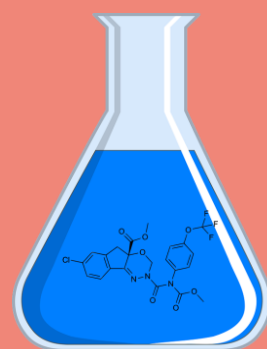
EUCLID

Europe China Lever for IPM Demonstration





## Cuivre

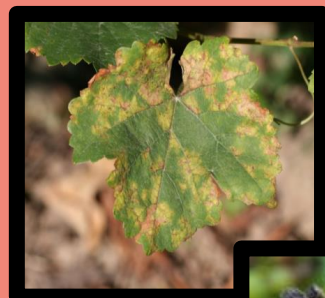


*Mildiou*  
*Black-rot*

*Coûts x2 si*



*x2 en période 4 et 5*



*Effet préventif* - 2



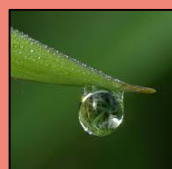
*Effet curatif* -1

Tox



+2

Rés



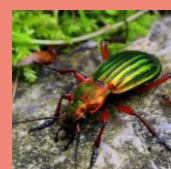
+ 2 

Eco



+ 3

Aux



+2



Périodes : 1 à 5





2



2

## Fongicide anti-Botrytis



*Pourriture grise*

Maximum 2 traitements/an



x2 en périodes 4 et 5



*Effet curatif*

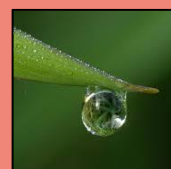
- 4

Tox



+ 3

Rés



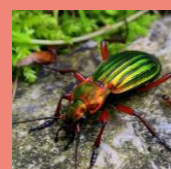
+ 4 

Eco



+ 2

Aux



+ 2



Périodes : 3 à 5





2 (+1\*)



# Fongicide polyvalent

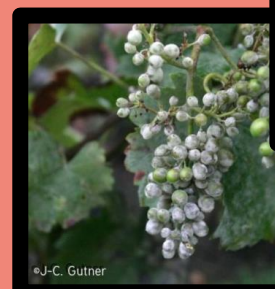
Mildiou  
Oïdium  
Black-rot



\*pour 3 pathogènes  
Maximum 2 traitements/an



x2 en périodes 4 and 5



Effet préventif - 1



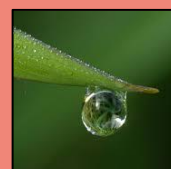
Effet curatif - 4

Tox



+ 2

Rés



+ 2

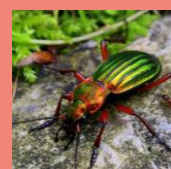


Eco



+ 2

Aux



+ 2



Périodes : 1 à 5



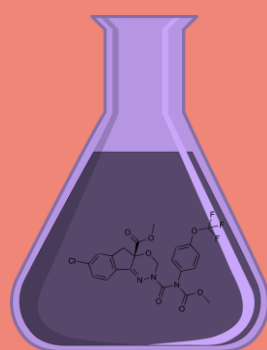


2



2

# Acaricides



*Acarie*s



*Maximum 2 traitements/an*



*Effet curatif*

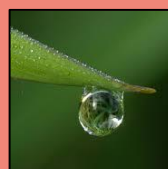
- 4

Tox



+ 4

Rés



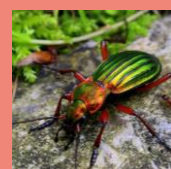
0

Eco



+ 4

Aux



+ 4



Périodes : 2 à 5



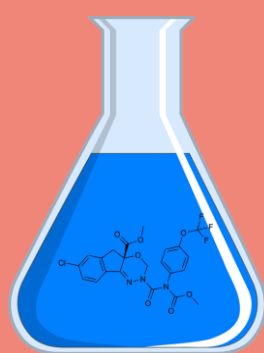


2



2

## *Insecticide régulateur de croissance (ex Tebufenozide)*



*Tordeuse de la grappe*



*Maximum 2 traitements/an*



*Effet préventif*

- 3



*Effet curatif*

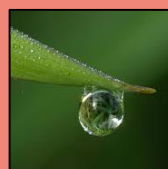
- 1

Tox



0

Rés



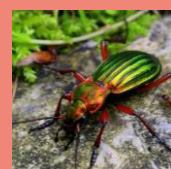
0

Eco



+ 2

Aux



0



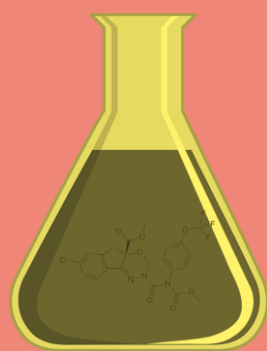
Périodes : 2 à 5





## *Insecticide neurotoxique*

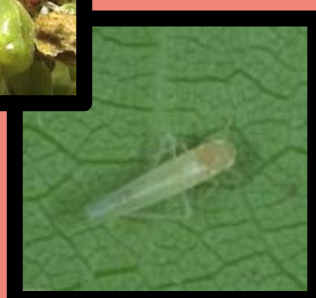
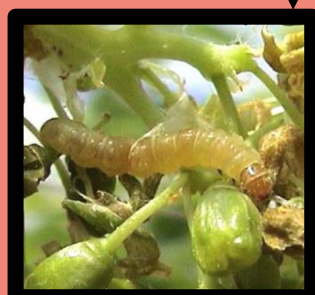
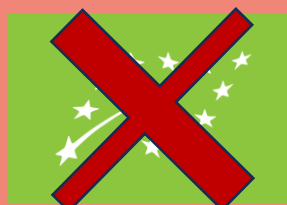
### *Pyrethrinoïdes*



*Tordeuse de la grappe*  
*Cicadelle des grillures*



*Maximum 2 traitements/an*  
*Coûts x2 si*



*Effet curatif*

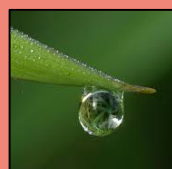
- 4

Tox



+ 4

Rés



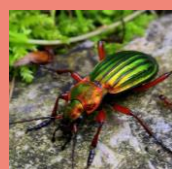
0

Eco



+ 4

Aux



+ 4



Périodes : 2 à 5





3

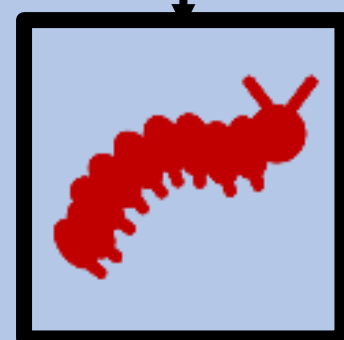


3

# Gestion agro-écologique



*Tordeuse de la grappe*  
*Acariens*  
*Cicadelle des grillures*



*Effet préventif* - 2



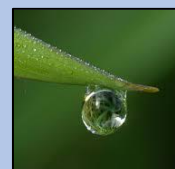
*Effet curatif* - 1

Tox



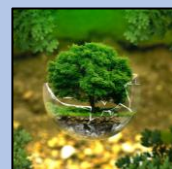
0

Rés



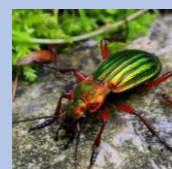
0

Eco



-1

Aux



- 2



Périodes :  - 1 - 2





3



5

## Taille en vert



*Mildiou  
Oïdium  
Black-rot  
Pourriture grise*



*Maximum 2  
reductions ou tailles / an  
Pas 2 périodes de suite*



*Effet préventif -2*



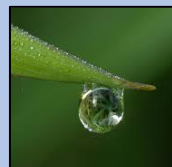
*Effet curatif -1*

Tox



0

Rés



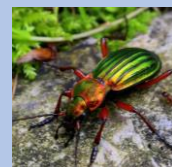
0

Eco



0

Aux



0



Périodes : 3 à 5





2



4

## Réduction de la vigueur



*Acarions*  
*Oïdium*  
*Pourriture grise*



*Maximum 2*  
*reductions ou tailles / an*  
*Pas 2 périodes de suite*



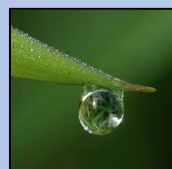
*Effet préventif*      -2

Tox



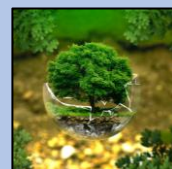
0

Rés



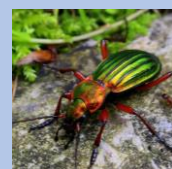
0

Eco



0

Aux



0



Périodes : 1 à 4

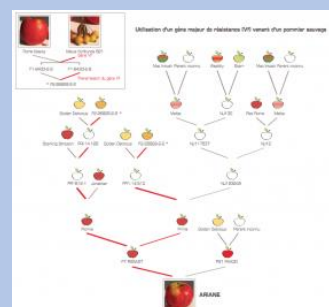




5



# Variété résistante



**Oïdium  
Mildiou**



**Effet préventif**

- À chaque période – 3
- À combiner avec d'autres solutions 2 fois durant la saison pour maintenir le niveau d'efficacité

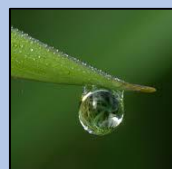
> Sinon - 2

**Tox**



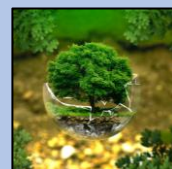
0

**Rés**



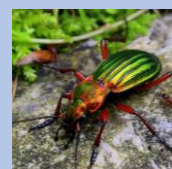
0

**Eco**



0

**Aux**



0



Période :



**EUCLID**

Europe China Lever for IPM Demonstration





3



2

## Eco-pâturage



*Tordeuse de la grappe*



*Effet préventif* -2



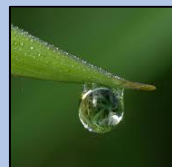
*Effet curatif* -1

Tox



0

Rés



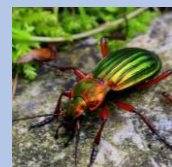
0

Eco



0

Aux



0



Périodes : 1 à 3



**EUCLID**

Europe China Lever for IPM Demonstration





3

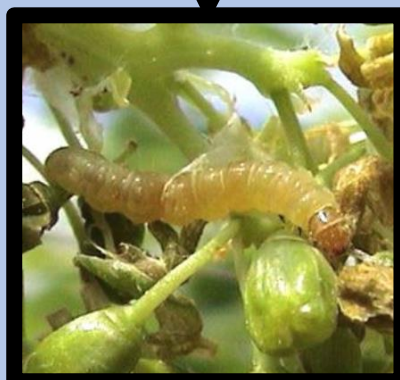


3

***IAE > oiseaux et  
chauve-souris***



***Tordeuse de la  
grappe***



***Effet préventif***

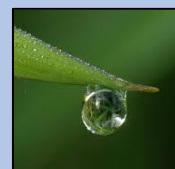
**-2**

**Tox**



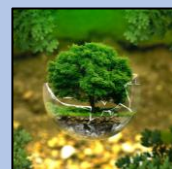
**0**

**Rés**



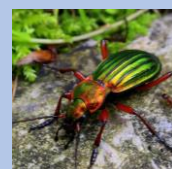
**0**

**Eco**



**-1**

**Aux**



**-1**



**Période :**

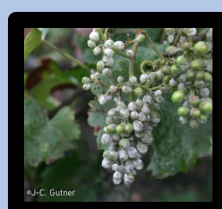




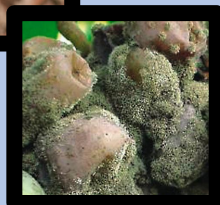
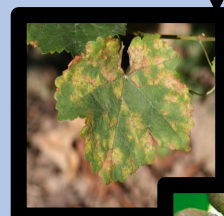
# Viti tunnel



*Mildiou*  
*Pourriture grise*



*Oïdium*  
**+1 à chaque période**



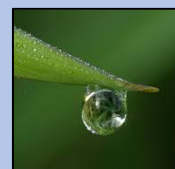
*Effet préventif -2*  
**À chaque période**

Tox



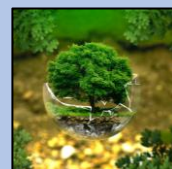
0

Rés



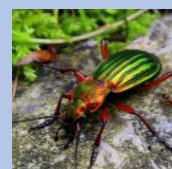
0

Eco



0

Aux



0



Périodes : 1 à 4

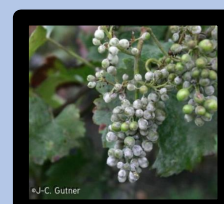




# UV-C



*Oïdium  
Mildiou*



*Effet préventif*

-4

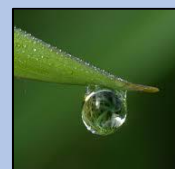
*Avec Cuivre pour le  
mildiou*

Tox



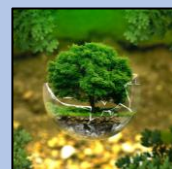
0

Rés



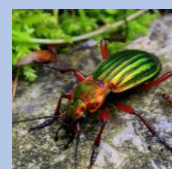
0

Eco



0

Aux



0



Périodes : 1 à 4





2

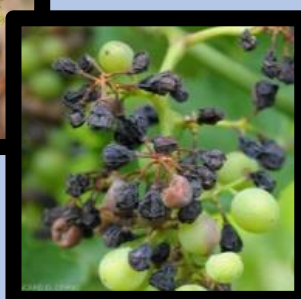


3

# Ramassage des feuilles



Mildiou  
Black-rot



Effet préventif

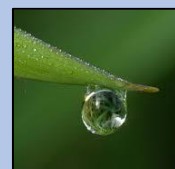
**Empêche les  
contaminations 1<sup>res</sup>**

Tox



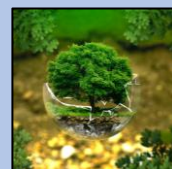
0

Rés



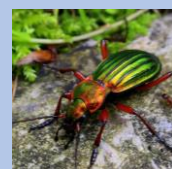
0

Eco



0

Aux



0



Période :



**EUCLID**

Europe China Lever for IPM Demonstration





2



1

# Augmentorium



*Tordeuse de la grappe*



*Effet préventif*

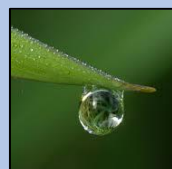
*Empêche les  
contaminations l<sup>res</sup>*

Tox



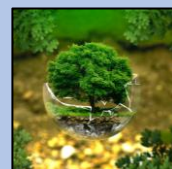
0

Rés



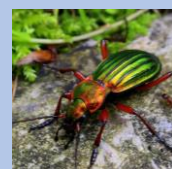
0

Eco



0

Aux



-1



Périodes :  1 à 4



**EUCLID**

Europe China Lever for IPM Demonstration





1



2

# *Poudre de roche*

*Kaolin*



*Cicadelle  
des grillures*



*Effet préventif*

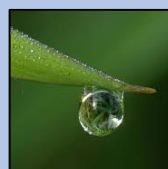
-2

Tox



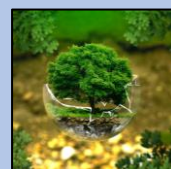
+1

Rés



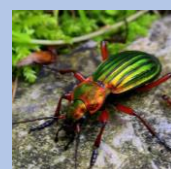
0

Eco



0

Aux



0



Périodes : 3 & 4



**EUCLID**

Europe China Lever for IPM Demonstration





4



4

# Prophylaxie

*épamprage, suppression des repousses,  
drainage...*



*Mildiou*



*Effet préventif*

*Période 2 - 3*

*Période 3 - 2*

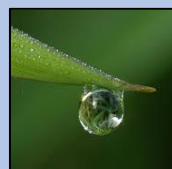
*Période 4 - 1*

Tox



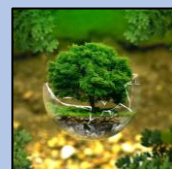
0

Rés



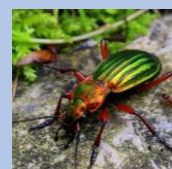
0

Eco



0

Aux



0



Période : 1



**EUCLID**

Europe China Lever for IPM Demonstration





+1



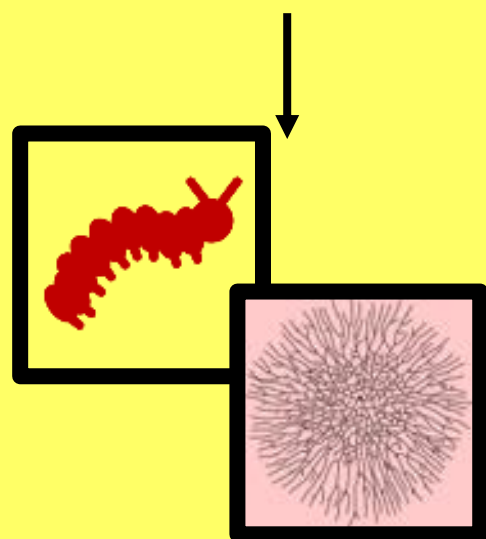
+1

/ bioagresseur

# Systeme d'application de precision



Tous



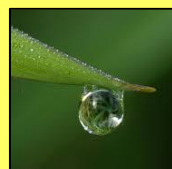
À jouer avec pesticide  
ou biocontrôle pour réduire  
les impacts

Tox



0

Rés



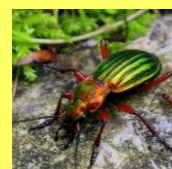
-1

Eco



-1

Aux



-1



Périodes : 1 à 5





+2



+1

# Systeme anti-dérive



Tous



À jouer avec pesticides ou  
produits de biocontrôle pour  
réduire les impacts

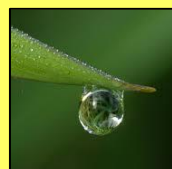


Tox



-1

Rés



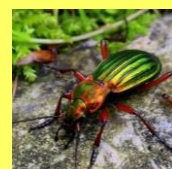
0

Eco



-1

Aux



-1



Périodes : 1 à 5





+1



# Adjuvant



*Tous*



*À jouer avec produits de  
biocontrôle en cas de temps sec*



Périodes : 1 à 5





+2



0 / 1

*Seul*

# Biostimulant



**Tous**



**Effet préventif**

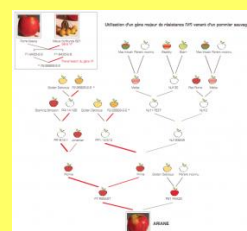
*Seul pour les bioagresseurs  
dont la pression est égale  
à 0 ou le risque  $\leq 0$*

-1



*Peut améliorer l'efficacité  
des microorganismes, des  
substances naturelles,  
des SdB et du Cu*

+1



*Maintient la durabilité  
de la résistance variétale*  
= 1 solution



Périodes : 1 à 4



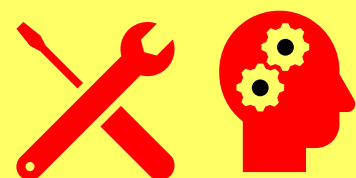


2

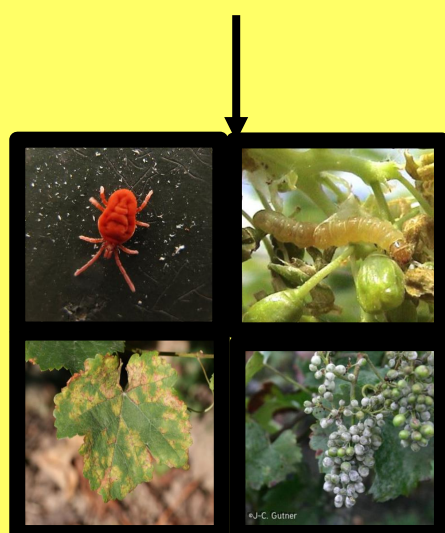


1

## *Outils d'aide à la décision (OAD)*



*Tordeuse de la grappe  
Acariens  
Mildiou  
Oïdium*



*Donne la possibilité de  
jouer une carte  
« méthodes préventives »  
le prochain tour après  
tirage de la météo*



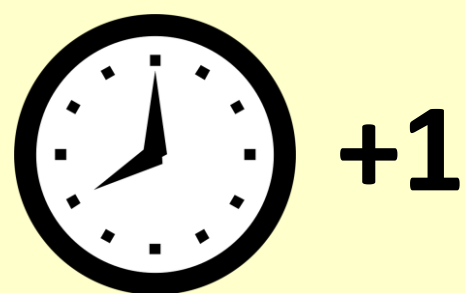
Périodes : 1 à 4





# **ETA**

## ***(Entreprise de travaux agricoles)***



*L'unité de temps doit être dépensée durant la période*

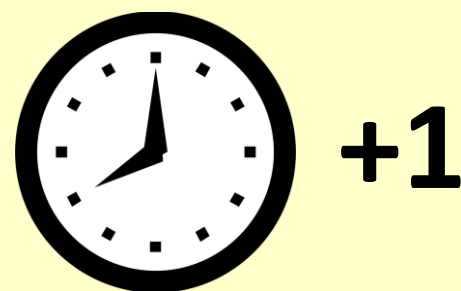
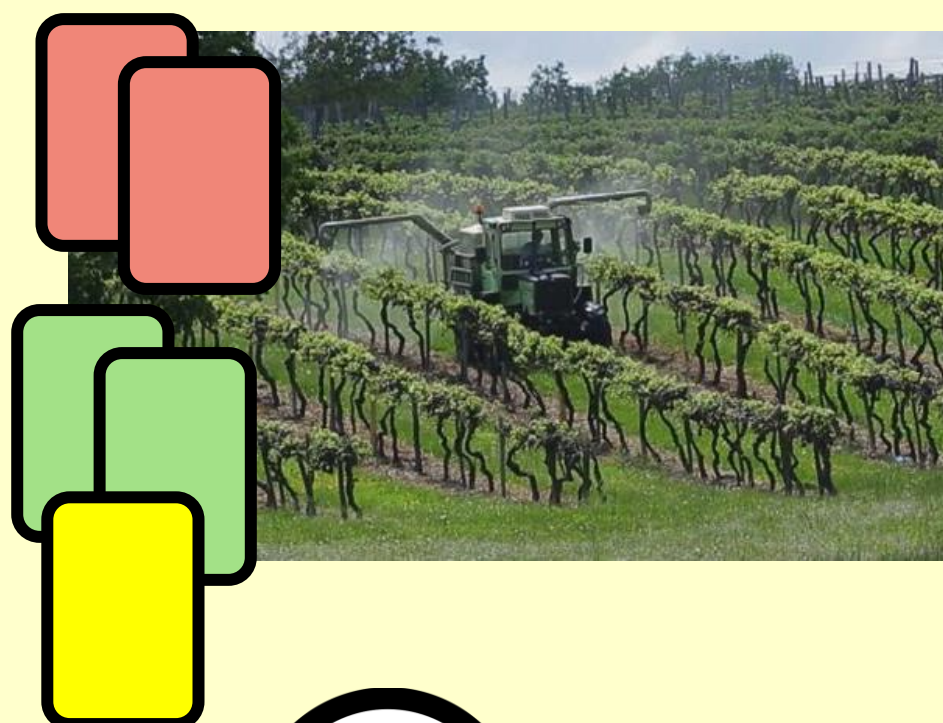


Périodes :  1 à 5





## *Traitements associés*



*Vous gagnez 1 unite de temps  
quand vous appliquez 2  
produits de biosolutions ou 2  
pesticides*

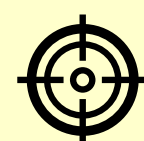


Périodes : 1 à 5





## Association biocontrôle ou UV et ½ dose de cuivre



**Mildiou  
Black-rot**



**Effet préventif +1**  
**L'efficacité du Cu**  
**est diminuée**



**+1**

*Vous gagnez 1 unite de temps  
quand vous appliquez ces associations*

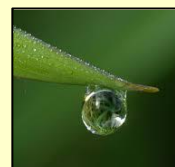
*Et vous réduisez l'impact du Cuivre*

**Tox**



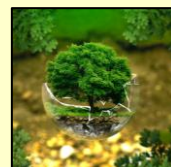
**-1**

**Rés**



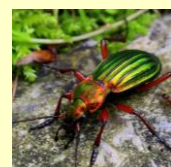
**-1**

**Eco**



**-1**

**Aux**



**-1**



**Période : 1 à 5**





# Gestion du Black-Rot

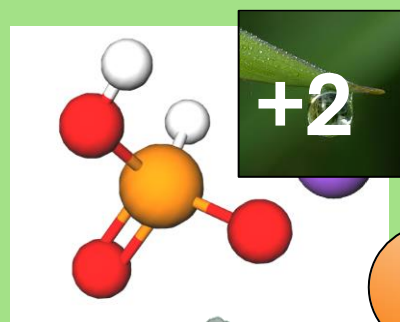
**Attention ! Ces substances ne sont pas autorisées sur cette maladie**



**Ces résultats sont issus d'expérimentation en cours**



Périodes  
3 & 4



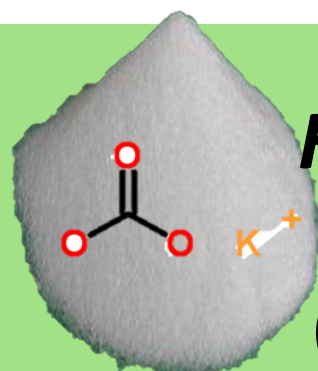
+2

**Phosphonates**



Effet préventif -2

1 à 4



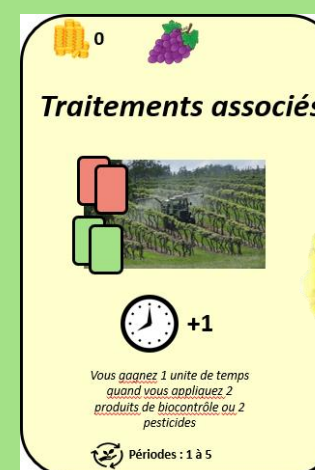
**Hydrogénocarbonate de Potassium**



Effet préventif -2



2



Effet préventif -2



**Soufre**



2



Europe China Lever for IPM Demonstration

**EUCLED**

