

OUTILS POUR LE SUIVI DE PUCERONS EN PARCELLES

LES PUCERONS constituent un risque majeur notamment pour la transmission des maladies virales en production de plants de pomme de terre. Outre les modèles de prévision de la dynamique des populations de vecteurs qui peuvent informer sur la date et l'intensité de la colonisation par les pucerons ailés, nous présentons ici quelques outils qui permettent de mesurer la pression en parcelles.

STADE DE DEVELOPPEMENT



œuf



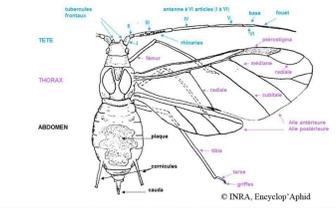
Adulte aptère



Adulte ailé

MORPHOLOGIQUE/PHÉNOTYPIQUE

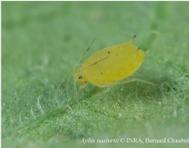
- Antennes
- Sinus frontaux
- Pattes
- Cauda
- Cornicules
- Ornements cuticulaires



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CIBLE

GENRE/ ESPÈCE



A. nasturtii



N. formosana



M. persicae



A. pisum

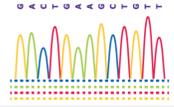
Encyclop'Aphid

IDENTIFICATION

GÉNÉTIQUE




DNA Barcoding



	Identification à l'espèce	Données journalières	Cibles	Savoir-faire	Temps de lecture	Intervention	Coût
Comptage sur feuilles 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> Œufs Larves Aptères Ailés 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>
Comptage en cuvette 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> Aptères Ailés 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>
Plaque engluée/chromatique 	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> Ailés 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>
Plaque couplée à une caméra 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> Ailés 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>
Radar 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<ul style="list-style-type: none"> Ailés 	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: gray; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>