

# **Codling Moth Team**

## **IRAC**

**Spring Conference Brussels**

**April 27/28 2004**

# activities

- **Prepare IOBC conference September 26-30 2004 in San Michele: Section on CM resistance**
- **Work on: methodology with JP. Charmillot, C. Ioriatti**
- **Rework how to do survey**

# Methods

	pro	cons
<b>L1 /eggs</b>	<ul style="list-style-type: none"> <li>- tests on target stage</li> <li>- can be tested with relevant method (eggs, feeding ..)</li> </ul>	<ul style="list-style-type: none"> <li>- requires first colony, ca 3 generations, success rate very low, presently very few resistant colonies in culture</li> </ul>
<b>L1 in field</b>	<ul style="list-style-type: none"> <li>- test on target stage</li> <li>- feeding or contact</li> </ul>	<ul style="list-style-type: none"> <li>- collection of L1 difficult</li> <li>- limited number of individuals available</li> </ul>
<b>diapausing larvae</b>	<ul style="list-style-type: none"> <li>- collection of L5 very easy</li> <li>- collection of high numbers possible</li> <li>- handling very easy</li> <li>- R measured for single orchard</li> </ul>	<ul style="list-style-type: none"> <li>- L5 not target stage</li> <li>- topical application not suited for all chemistries</li> <li>- very high LD50 for some prod</li> </ul>

Data: J.P. Charmillot, RAC Nyon

produit	Formulation (% m.a.)	Solvant	Concentration discriminante (ppm)	% efficacité sur souche RAC
1-.diflubenzuron	prod. techn. >99%	tétrahydrofuran	10'000	71.6
2-.fénoxycarbe	prod. techn. 99.5%	acétone	1	97.8
3-.tébufénozide	prod. techn. 98.5%	acétone	300	94.7
4-.méthoxyfénozide	prod. techn. 98.3%	acétone	100	99.1
5-.deltaméthrine	OP 210733 25 g/l	acétone	100	99.5
6-.phosalone	Zolone EC 350 g/l	acétone	3'000	99.9
7-.chlorpyrifos-éthyl	prod. techn. 97.3%	acétone	1'200	96.7
8-.chlorpyrifos-	Reldan 400 g/l	acétone	1'200	95.6
9-.indoxacarbe	DPX-MP062 100%	acétone	10'000	88.6
10-.spinosad	prod. techn. 100%	dichlorméthane	6000	98.7
11-.imidaclopride	prod. techn. 99.9%	acétone	100	99.7
12-.thiacloprode	prod. techn. 99.7%	acétone	500	99.4
13-.émamectine	prod. techn. 95.4%	acétone	500	99.3
<i>flufenoxuron</i>	<i>Cascade 100 g/l</i>	<i>acétone</i>	<i>15000</i>	<i>49.4</i>

# 2004 recommendations

Data: Mauro Genini, Sion

- use recommendation areas with damage at harvest 2003 was  $> 1 - 2 \%$ :
  1. Generation:  $6 \times \frac{1}{2}$  dose rate of GV ; MD as base treatment
  2. Generation: if damage  $> 2\%$ : Reldan
- use recommendation areas with damage at harvest 2003 was  $> 5 \%$ :
  1. Generation: 1 Reldan treatment;  $6 \times \frac{1}{2}$  dose rate of GV ; MD as base treatment
  2. Generation: if damage  $> 2\%$ : Reldan
- Support treatments of GV and MD with subsidies

# 2003 Experience by Maag

Data: J. Meier Dielsdor

- 2003 was a difficult year for CM control (high pest pressure and change in timing due to very hot climate)
- Dielsdorf: 40 % attack in check, 0 % damage with FOXY & Dimilin treatments (sensitive population)
- Vaud: on 75 % of the acreage, MD is used. 40 - 50 % of acreage has R problems

# Survey on damage Vallais, CH

Data: Mauro Genini, Sion

apple							
Cydia pomonella	% damaged aples on tree						
	0 - 1	1 - 2	2 - 5	5 - 10	> 10	Average	max
June 130 orchards	80	6	9	4	1	1.1	30
July 127 orchards	32	16	28	14	10	3.9	25
preharvest 100 orchards	30	18	19	16	9	3.3	20
Pear							
	% damage on tree						
Adox	90	10				0.3	1.6
Cydia pomonella	66	17	8	2	5	2.5	54