



Eradicoat

Adam Root, BCP Certis.
AIBM, Lucerne





Outline

- Introduction to Eradicoat
- Product details
 - Mode of action
 - Application
 - Registration
- Efficacy
- Eradicoat and IPM





Eradicoat

- Physically acting Insecticide
- Active ingredient = Maltodextrin
 - Plant derived starch
 - Combined with vegetable oils and water
- Organic
- Maltodextrin and all co-formulants are natural and plant derived.





Eradicoat

- Broad spectrum
 - Effective against a range of small pests
- Fast acting
- No pre-harvest interval
- No residues
- Totally safe to operators, crop workers and consumers





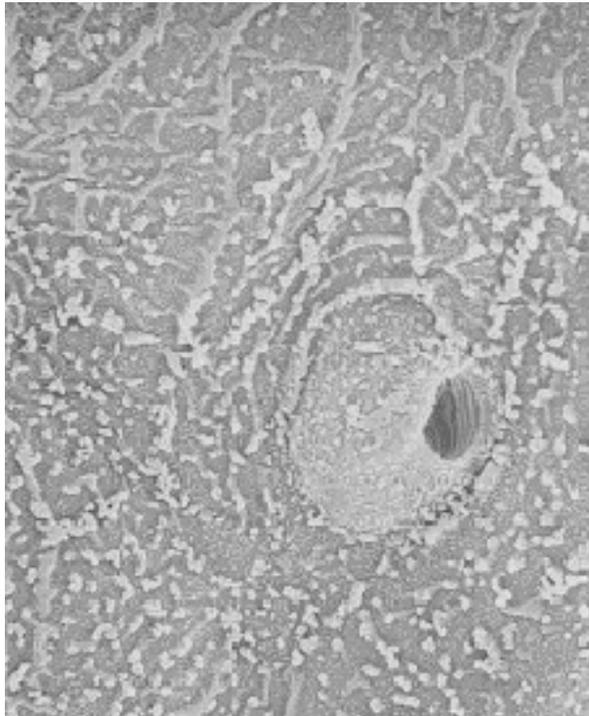
Mode of Action

- Coats and dries on the target pest
- Maltodextrin blocks the spiracles
- Death caused by suffocation
- Also has entrapment properties
- Physical action only.
- **NO TOXIC EFFECT**

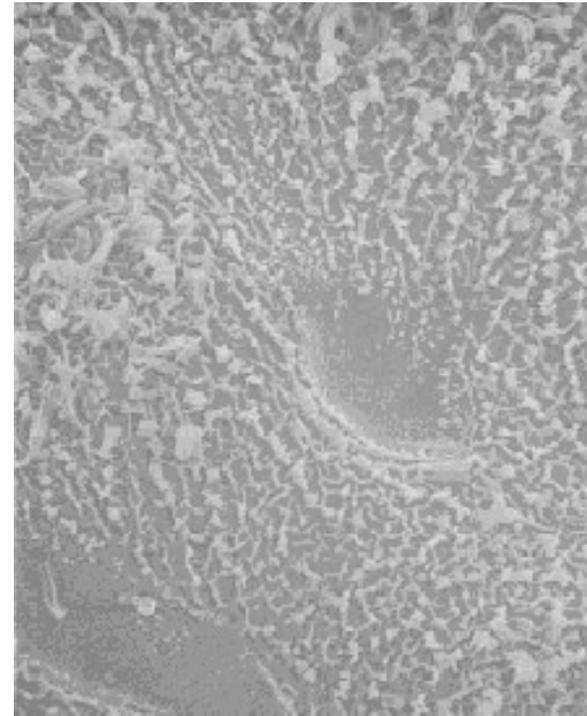




Mode of Action



**Spiracle: Pre-
Treatment**



**Spiracle: After
Treatment**





Registration

- Available in the UK and Sweden under a 'Physical Exemption'
- Eradicoat has natural product (RUB) registration in The Netherlands
- All Formulations undergoing formal pesticide registration across the EU (91/414)
- Maltodextrin undergoing Annex I listing





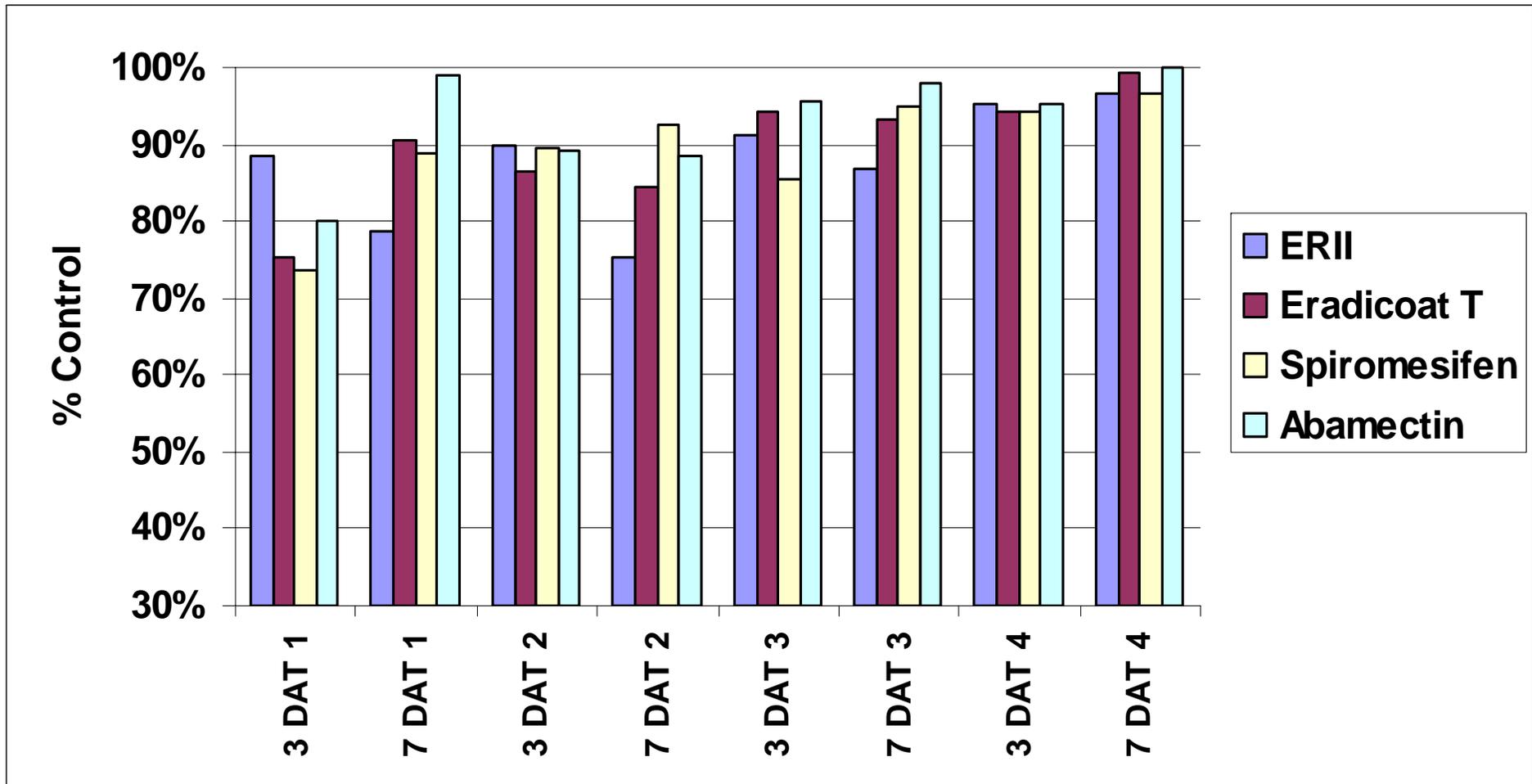
Phytotoxicity

- Phytotoxicity trialed against a wide range of ornamental and vegetable crops
 - No damage on 10 standard ornamental species tested
 - Commercial use on full range of protected vegetables
 - Some damage to very delicate cyclamen flowers
- Multiple sprays on fruiting vegetables can cause stickiness to build up on fruits
 - Eradicoat only
 - Only seen on fruits such as tomatoes
 - Eradicoat T formulation overcomes this





Efficacy against RSM Adults - Results

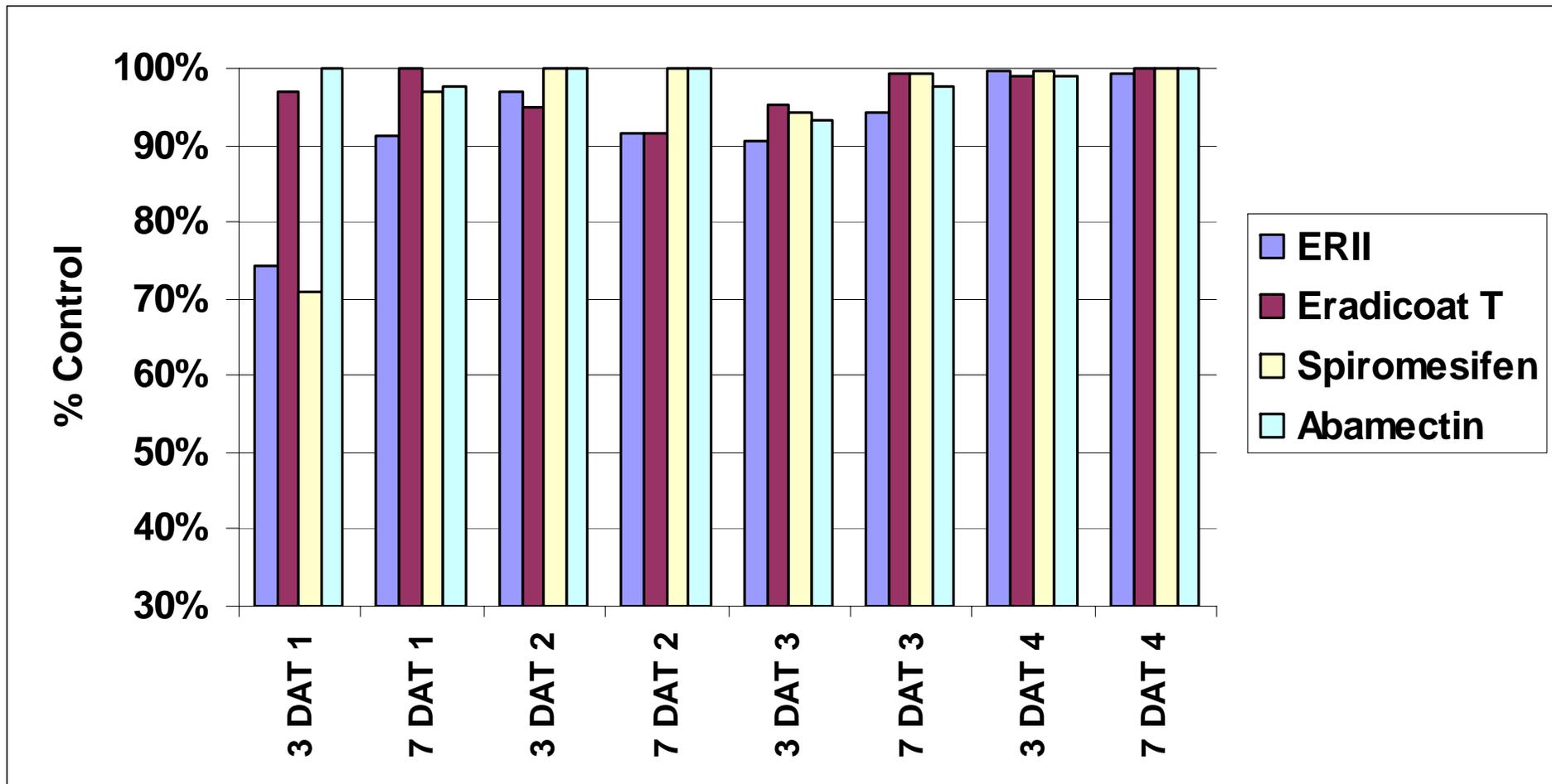


% Control against RSM Adults





Efficacy against RSM Nymphs - Results

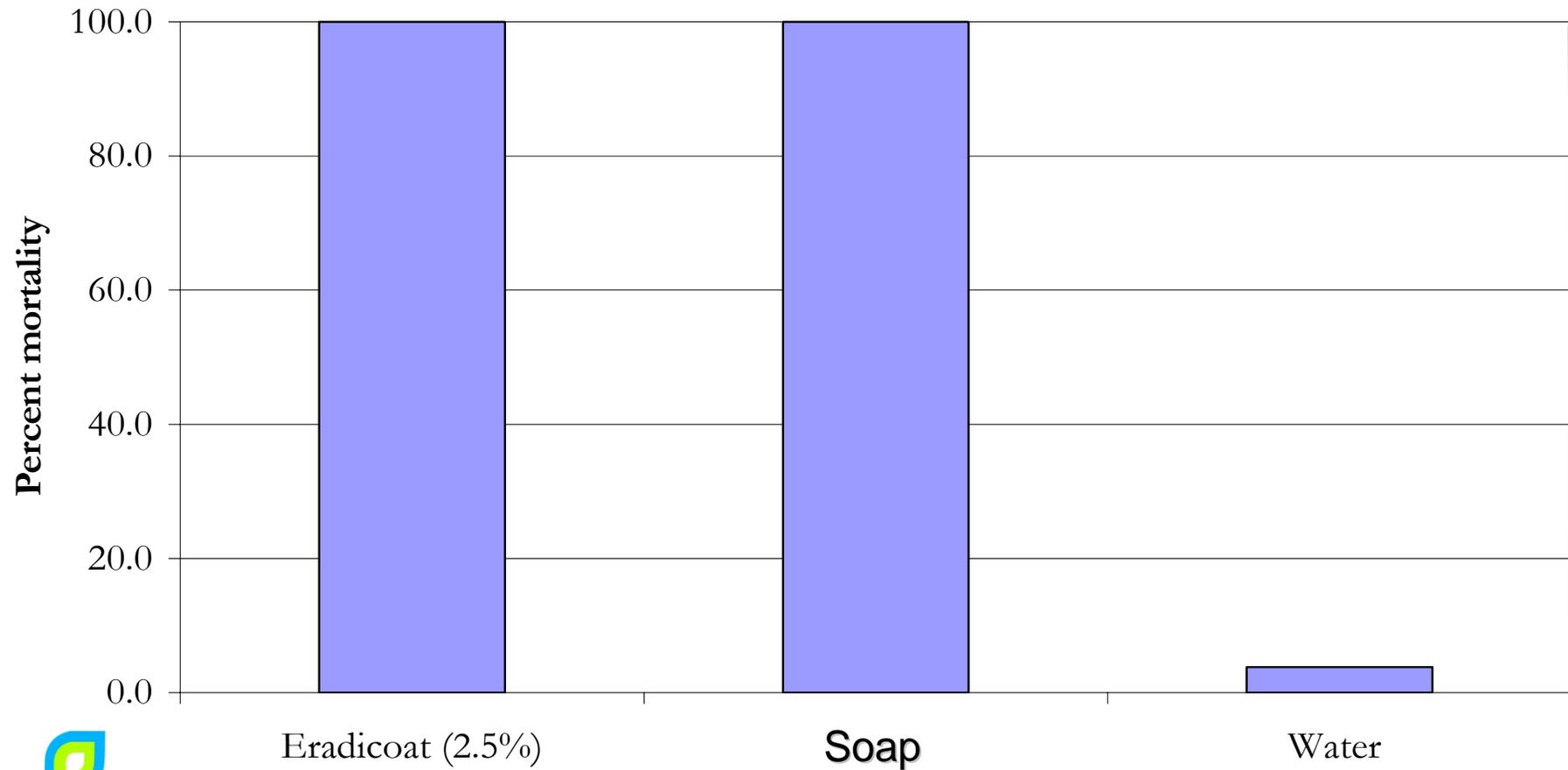


% Control against RSM nymphs



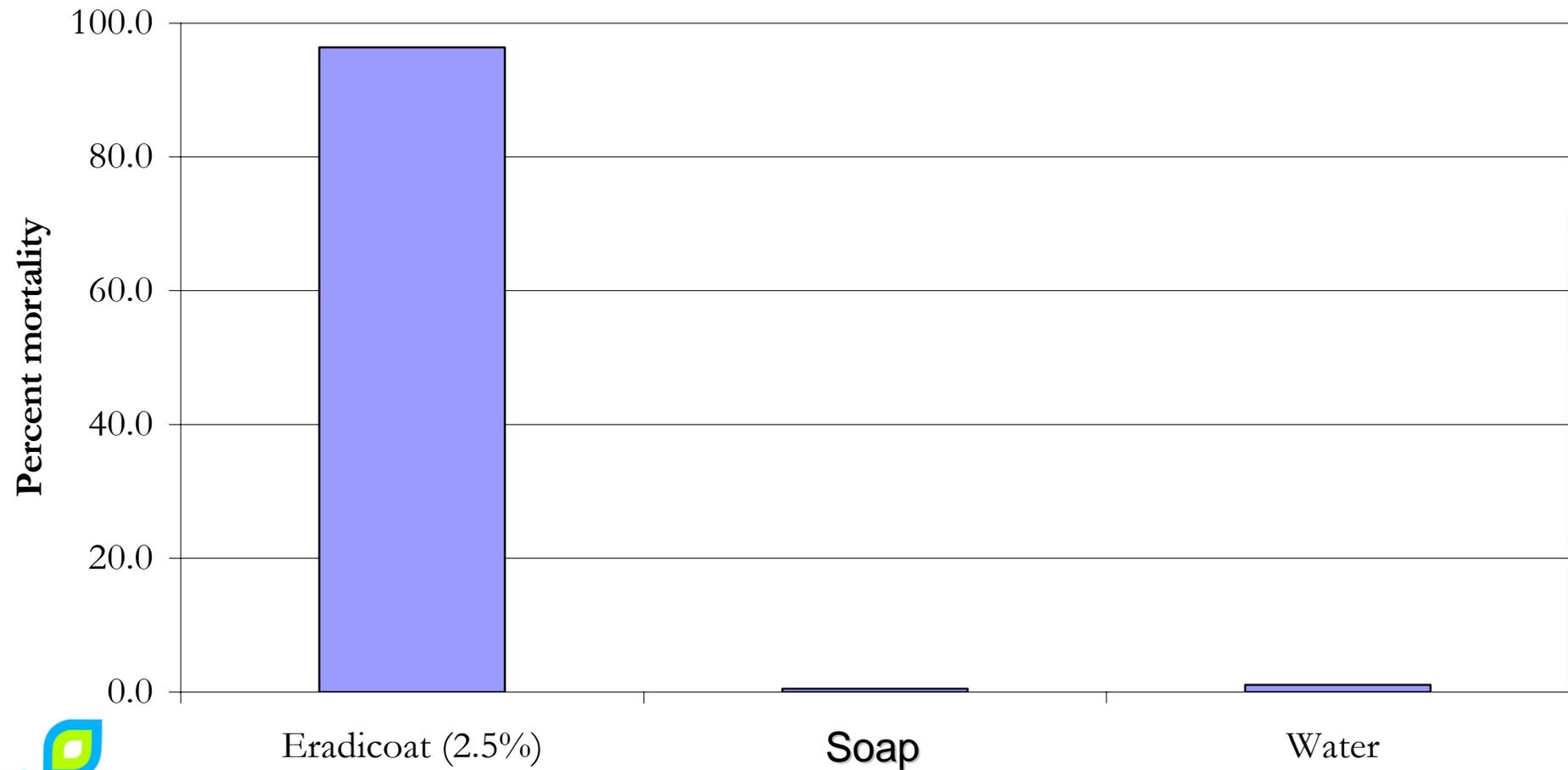


Percentage mortality of adult whitefly (*T. vaporariorum*)



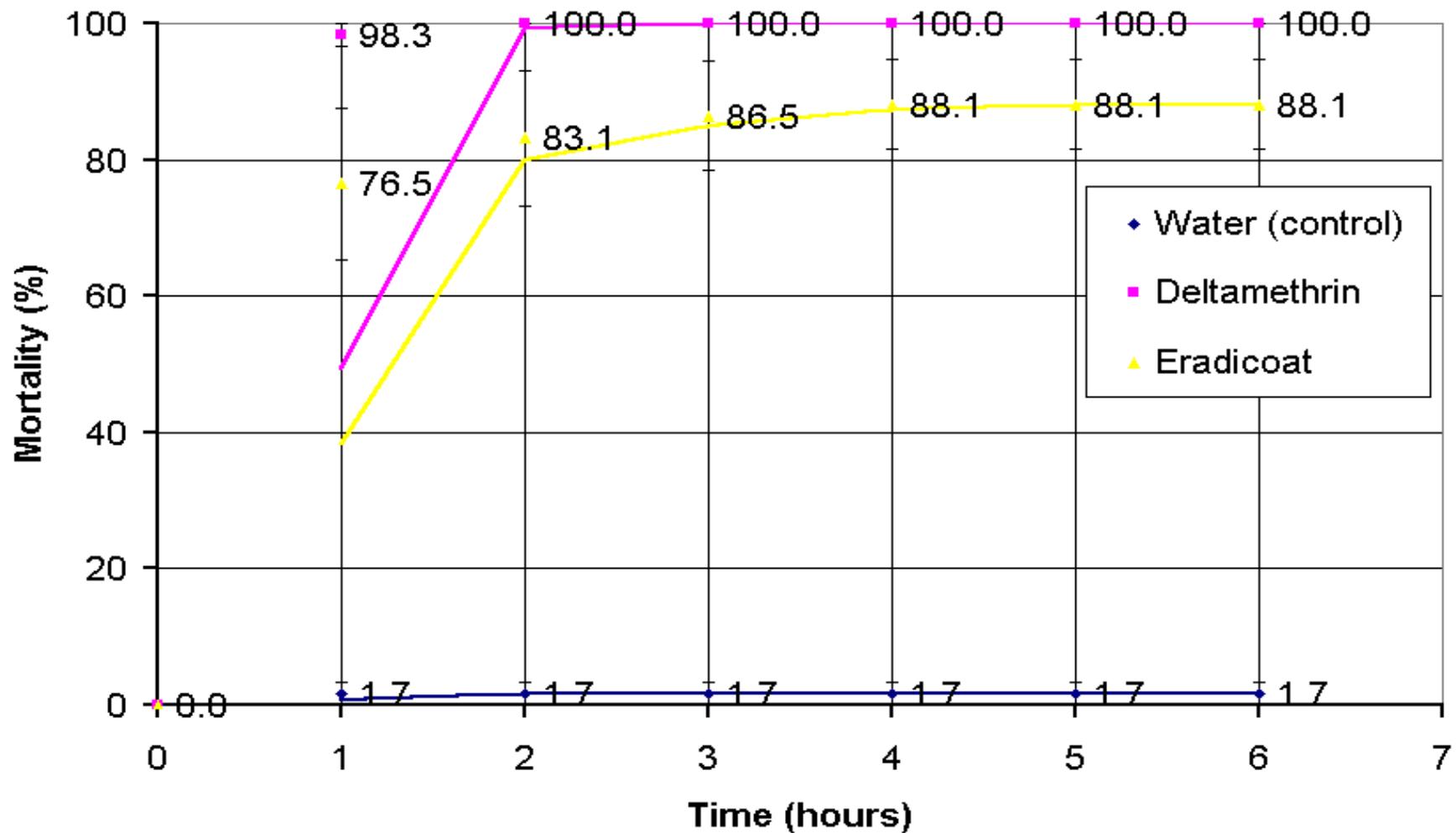


Percentage mortality of whitefly eggs (*T. vaporariorum*)





Results of the 3 treatments on *Aphis gossypii* showing number of deaths (%) over a 6 hour time span





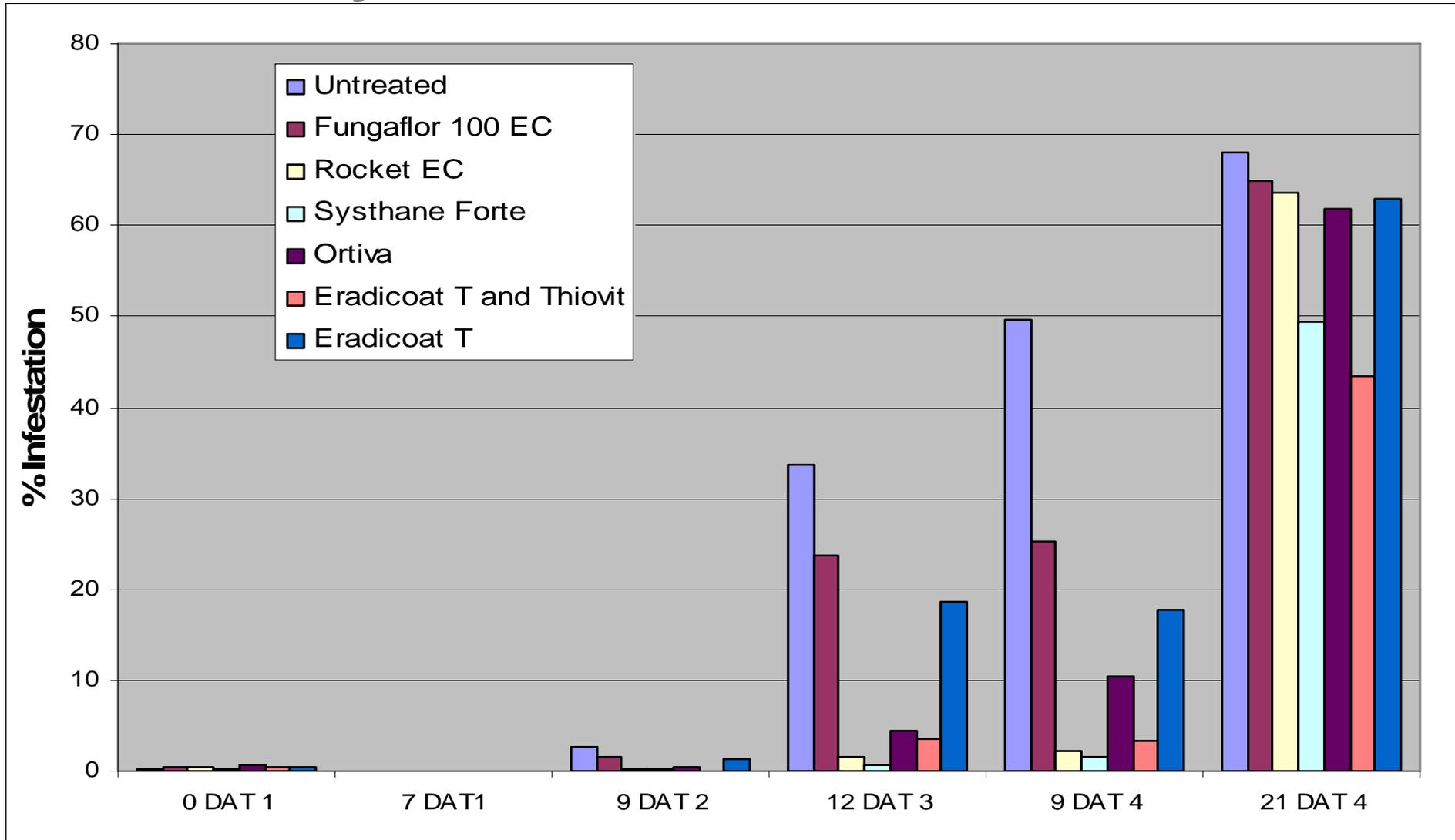
Additional species controlled

- Mealy bug
- Leafminer (Adults)
- Sciarid Flies (Adults)
- Shoreflies (Adults)
- Leafhoppers
- Scale insects
- Powdery mildew suppression



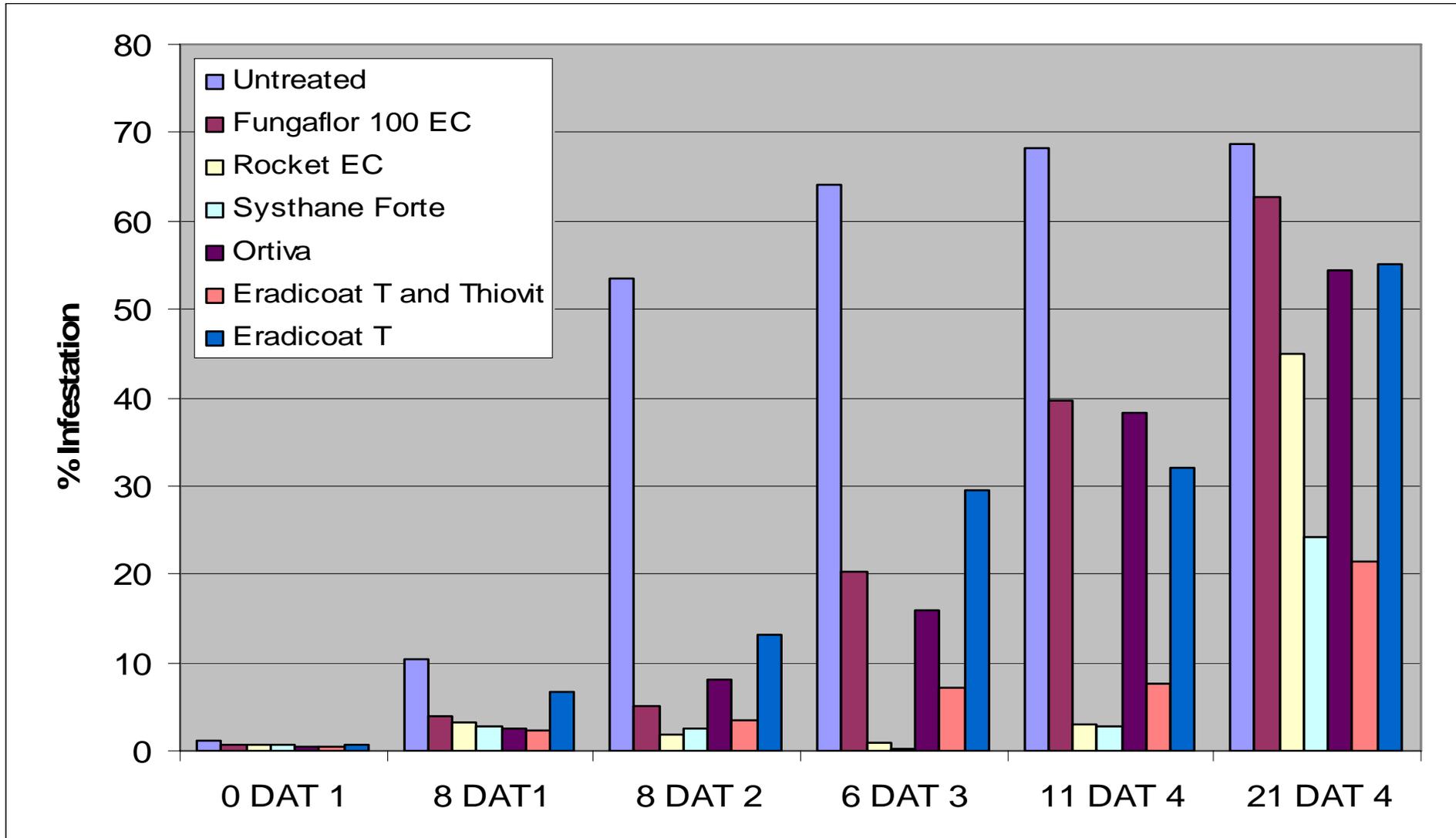


Powdery Mildew Control - Cucumber





Powdery Mildew Control - Melon





Eradicoat and IPM

- Good efficacy against spidermites, whitefly and other small pests
- No direct toxicity to natural enemies
 - Direct spray would cause suffocation BUT:
 - Immediately after treatment beneficials could re-colonize or be re-introduced
 - Eggs are not killed so existing populations will recover
- Product is used effectively without upsetting IPM programs





Eradicoat and IPM

- Eradicoat and Eradicoat T
 - Ideal as hotspot treatment (RSM, Aphids, Whitefly)
 - Ideal as band treatment (Target whitefly adults at the top of a crop with out disturbing parasites developing on lower leaves)
 - Used to correct imbalances between pests and beneficials
 - Let beneficials take control more quickly
 - Do not upset existing IPM programs





Eradicoat RSM strategy

- RSM often only spotted after numbers are at damaging levels
- BCP Certis strategy:
 - Treat with Eradicoat as soon as damage spotted
 - Immediately release *Phytoseiulus persimilis*





Summary

- Eradicoat Gives effective control of a range of small pests
 - Fit very well with beneficials in an IPM program
 - Natural products
 - No PHI
 - No residues
- Products available in the Netherlands (RUB), UK and Sweden (Physical exemption)
- EU wide registration application in progress

