



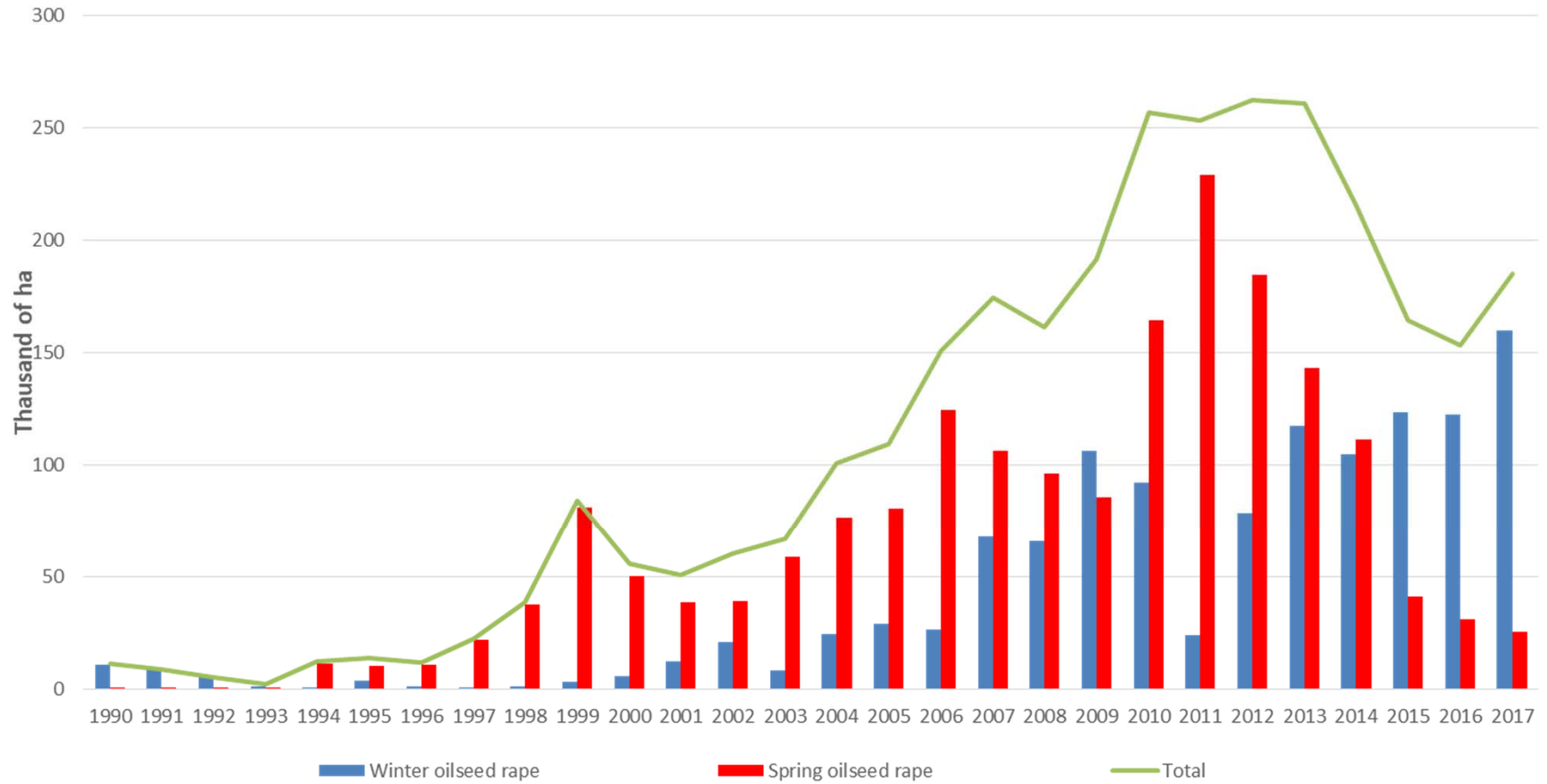
**LITHUANIAN
RESEARCH CENTRE
FOR AGRICULTURE
AND FORESTRY**

Oilseed rape insect pests in Lithuania

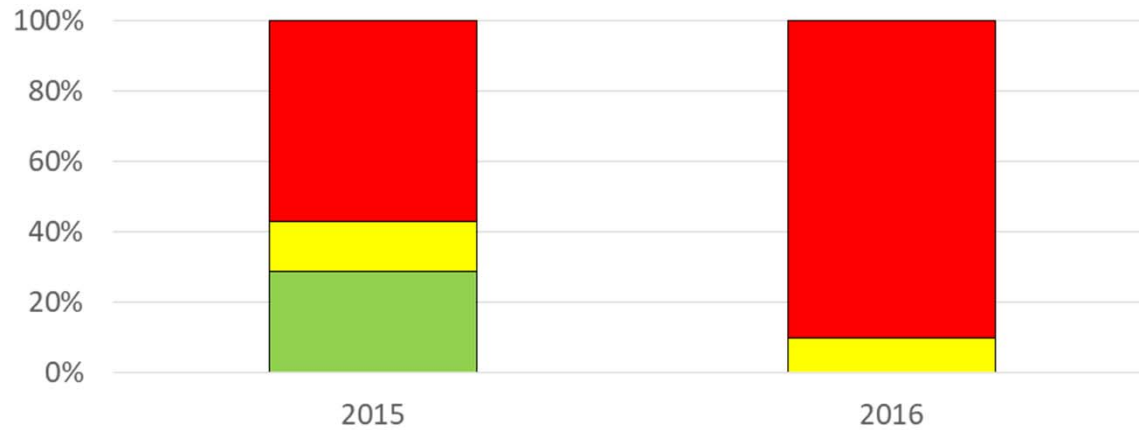
Birutė Vaitelytė



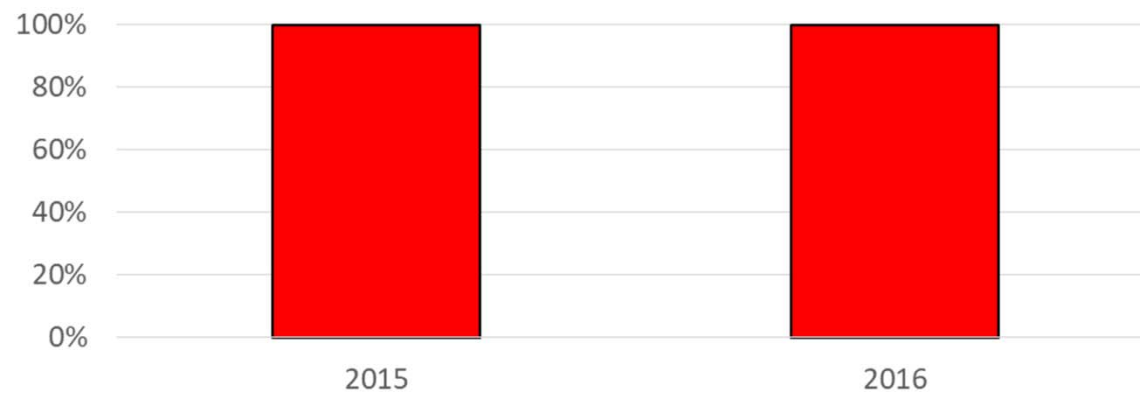
Oilseed rape cultivation areas during the period 1990-2017



The evaluation of cabbage stem flea beetle resistance to lambda-cyhalotrin



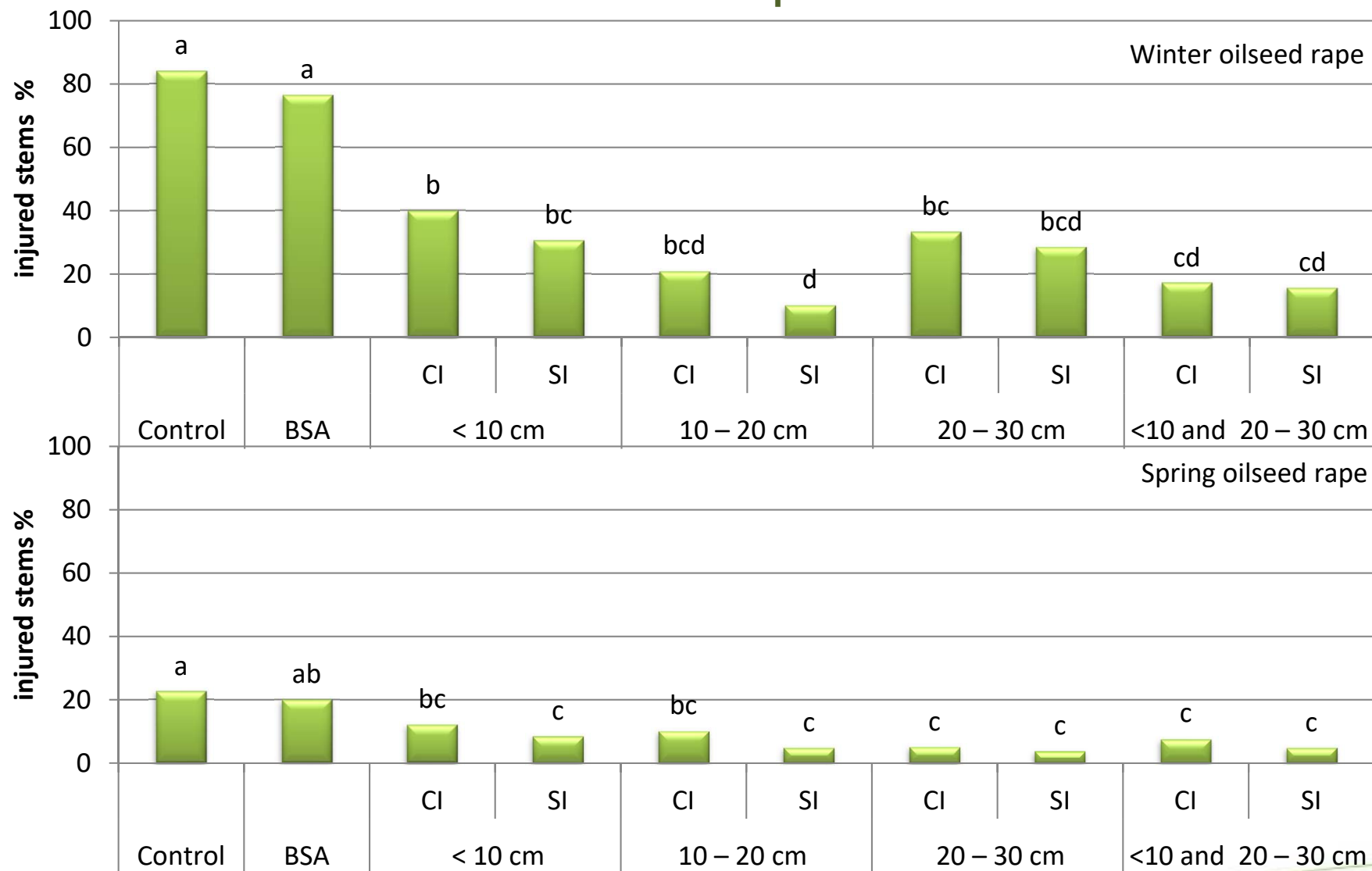
The evaluation of cabbage stem flea beetle resistance to tau-fluvalinate



IRAC
Susceptibility
Test Method
No: 31

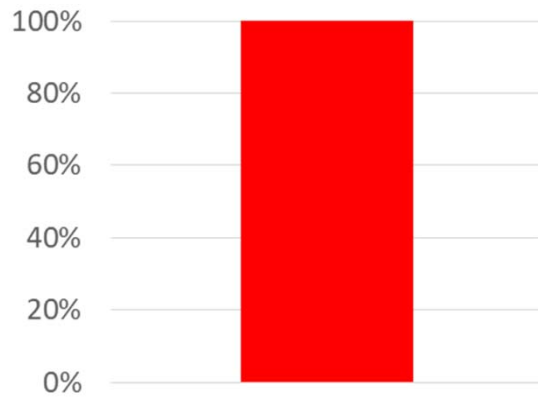
Classification	Affected
Susceptible	Mortality at 20% of the field application rate = 100%
Decreased susceptibility	Mortality at 20% rate between 90 and 100%
Resistance suspected	Mortality at 20% rate <90%, or at 50% rate < 100%

Cabbage stem weevil (*Ceutorhynchus pallidactylus*) injured stems in oilseed rape

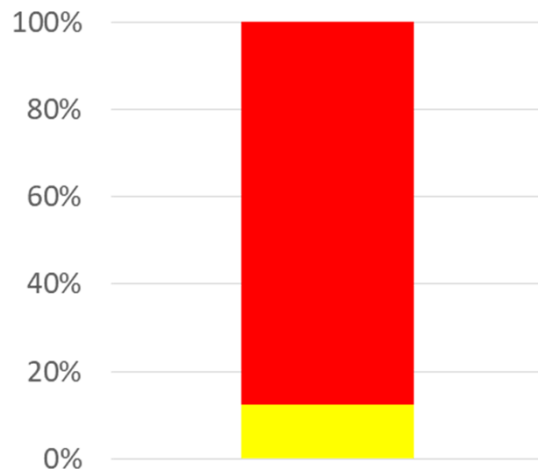


BSA - background spray applications (deltametrin 0.15 l ha⁻¹ from pollen beetles and against pod insect pests);
 CI – contact insecticide; SI – systemic insecticide

The evaluation of cabbage stem weevil beetle resistance to lambda-cyhalotrin



The evaluation of cabbage stem weevil beetle resistance to tau-fluvalinate



IRAC
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Classification	Affected
Susceptible	Mortality at 20% of the field application rate = 100%
Decreased susceptibility	Mortality at 20% rate between 90 and 100%
Resistance suspected	Mortality at 20% rate <90%, or at 50% rate < 100%

The evaluation of pollen beetle resistance to lambda-cyhalotrin

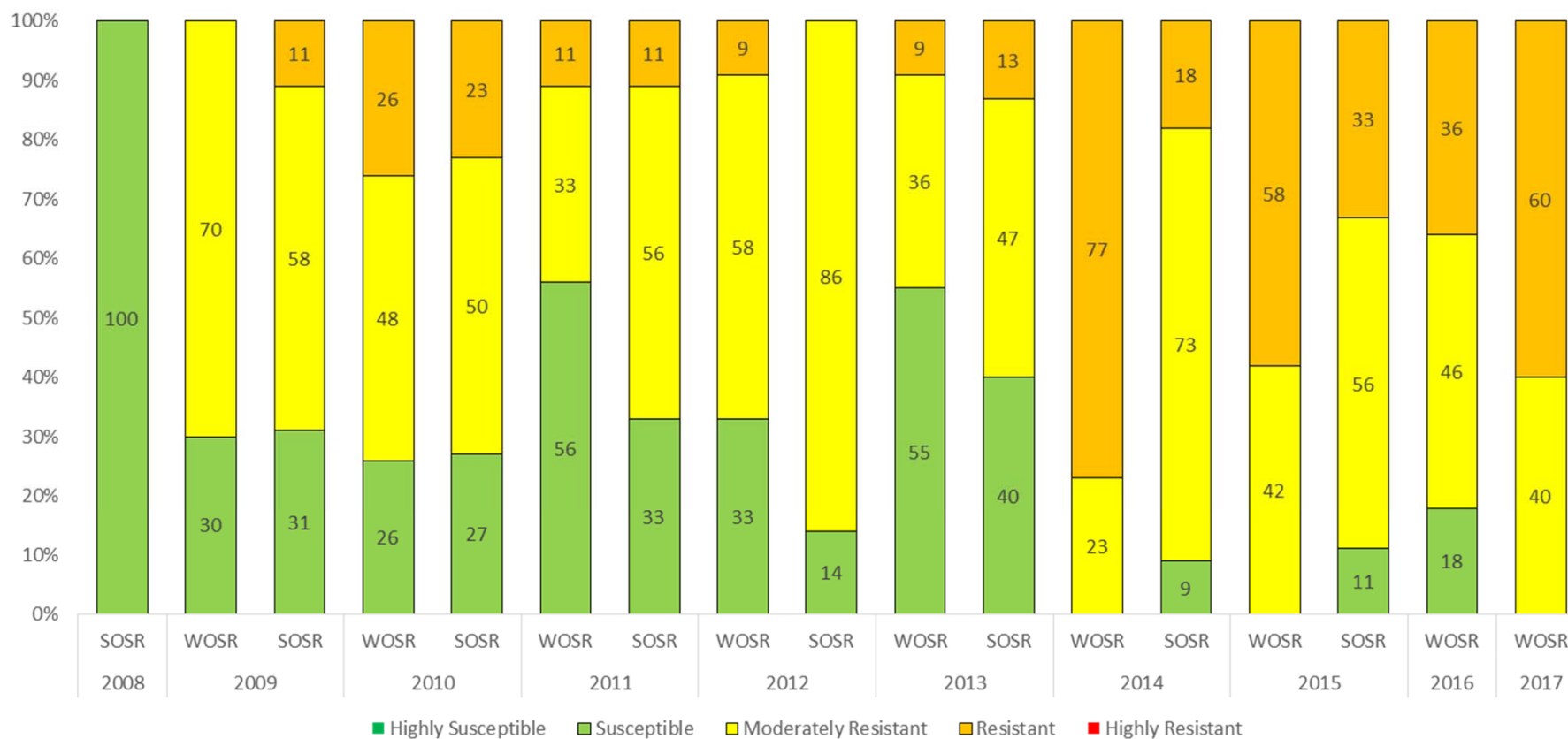


IRAC
Susceptibility
Test Method
No:11

Classification	Affected
Highly Susceptible	Mortality at 20% of the field application rate = 100% or at rate 100% =100%
Susceptible	Mortality at 20% rate < 100% or at rate 100% =100%
Moderately Resistant	Mortality at 100% rate between 90 and 100%
Resistant	Mortality at 100% rate between 50 and 90%
Highly Resistant	Mortality at 100% rate < 50%



The evaluation of pollen beetle resistance to tau-fluvalinate

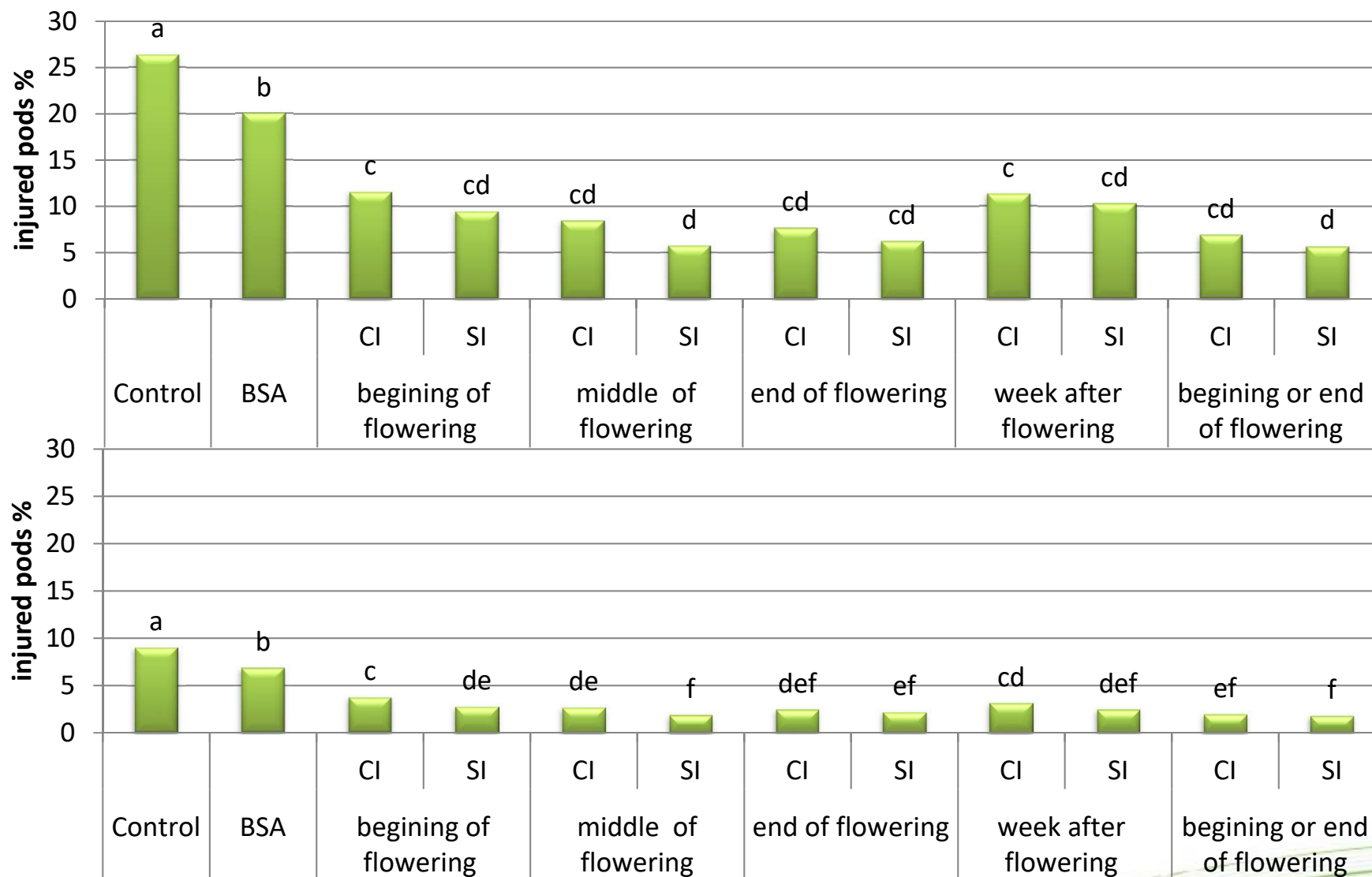


IRAC
Susceptibility
Test Method
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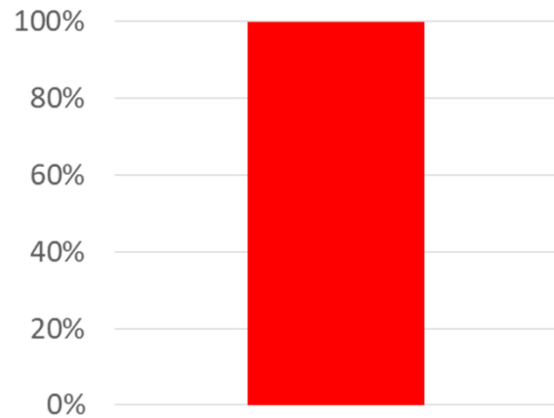
Classification	Affected
Highly Susceptible	Mortality at 20% of the field application rate = 100% or at rate 100% =100%
Susceptible	Mortality at 20% rate < 100% or at rate 100% =100%
Moderately Resistant	Mortality at 100% rate between 90 and 100%
Resistant	Mortality at 100% rate between 50 and 90%
Highly Resistant	Mortality at 100% rate < 50%

Cabbage seed weevil (*Ceutorhynchus obstructus*) and brassica pod midge (*Dasineura brassicae*) injured pods in oilseed rape

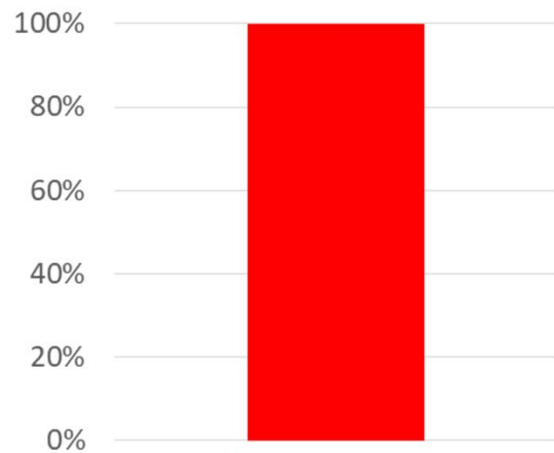


BSA - background spray applications (deltametrin 0.15 l ha⁻¹ from pollen beetles and against pod insect pests); CI – contact insecticide; SI – systemic insecticide

The evaluation of cabbage seed weevil beetle resistance to lambda-cyhalotrin



The evaluation of cabbage seed weevil beetle resistance to tau-fluvalinate



IRAC
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Classification	Affected
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The insecticides registered in oilseed rape in Lithuania

Insecticides	Active ingredients	Dosage
Pyrethroids		
Baythroid	Beta-cyfluthrin 25 g l ⁻¹	0.2-0.3 l ha ⁻¹
Bulldock 025 EC	Beta-cyfluthrin 25 g l ⁻¹	0.2-0.3 l ha ⁻¹
Cyperkill 500 EC	Cypermethrin 500 g l ⁻¹	0.05 l ha ⁻¹
Decis mega 50 EW	Deltamethrin 50 g l ⁻¹	0.125-0.15 l ha ⁻¹
Fastac 50 EC	Alfa-cypermethrin 50 g l ⁻¹	0.2 l ha ⁻¹
Fury 100 EW	Zeta-cypermethrin 100 g l ⁻¹	0.07-0.1 l ha ⁻¹
Kaiso 50 EG	Lambda-cyhalothrin 50 g kg ⁻¹	0.15 kg ha ⁻¹
Karate Zeon 5CS	Lambda-cyhalothrin 50 g l ⁻¹	0.1-0.15 l ha ⁻¹
Mavrik 2F	Tau-fluvalinate 240 g l ⁻¹	0.2-0.3 l ha ⁻¹
Poleci	Deltamethrin 25 g l ⁻¹	0.2 l ha ⁻¹
Neonicotinoids		
Biscaya	Thiacloprid 240 g l ⁻¹	0.3 l ha ⁻¹
Mospilan 20 SG	Acetamiprid 240 g kg ⁻¹	0.2 kg ha ⁻¹
Neonicotinoids+ pyrethroids		
Proteus 110 OD	Thiacloprid 100 g l ⁻¹ + deltamethrin 10 g l ⁻¹	0.6-0.75 l ha ⁻¹
Pyridines		
Plenum 50 WG	Pymetrozine 500 g kg ⁻¹	0.15 kg ha ⁻¹
Oxidiazines		
Avaunt	Indoxacarb 150 g l ⁻¹	0.17 l ha ⁻¹



Thank you for your attention

