



Psyllids (Psyllidae: Hemiptera) on fruit plants in Latvia

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Content



History of research



Review of fauna



Some news

Introduction



Order Hemiptera

Suborder Cicadomorpha

Suborder Heteroptera

Suborder Fulgoromorpha

Suborder Sternorrhyncha

Superfamily Aleyrodoidea

whiteflies

Superfamily Aphidoidea

aphids

Superfamily Coccoidea

scaleinsects

Superfamily Phylloxeroidea

phylloxerans

Superfamily Psylloidea

psyllids

Family Psyllidae

Family Triozidae

Introduction



Attēli: <http://www.cals.ncsu.edu/course/ent425/text18/plantvectors.html>
http://www.britishbugs.org.uk/homoptera/Psyllodea/Psylla_pyricola.html

19th century

Gustav Flor



(1829 Vecsalaca (Latvia) – 1883 Tartu (Estonia))

Gustav August Adam von Flor



19th century



Gustav Flor

Die Rhynchoten Livlands in systematischer Folge beschrieben

Part 1 1860

Part 2 1861

(including **37** psyllids for Latvia territory)



Cacopsylla mali
Cacopsylla pyri

Livonia – today Northern part of **Latvia** and Southern part of **Estonia**

Number of species



| 19 th century | 20 th century | Totally |
|--------------------------|--------------------------|-----------|
| Flor 1861 | Other authors | |
| 37 | 8 | 45 |

17 after Flor no more mentioned
in works of other scientists

~10 mentioned only 1 time

20th century



Psyllid research after G. Flor

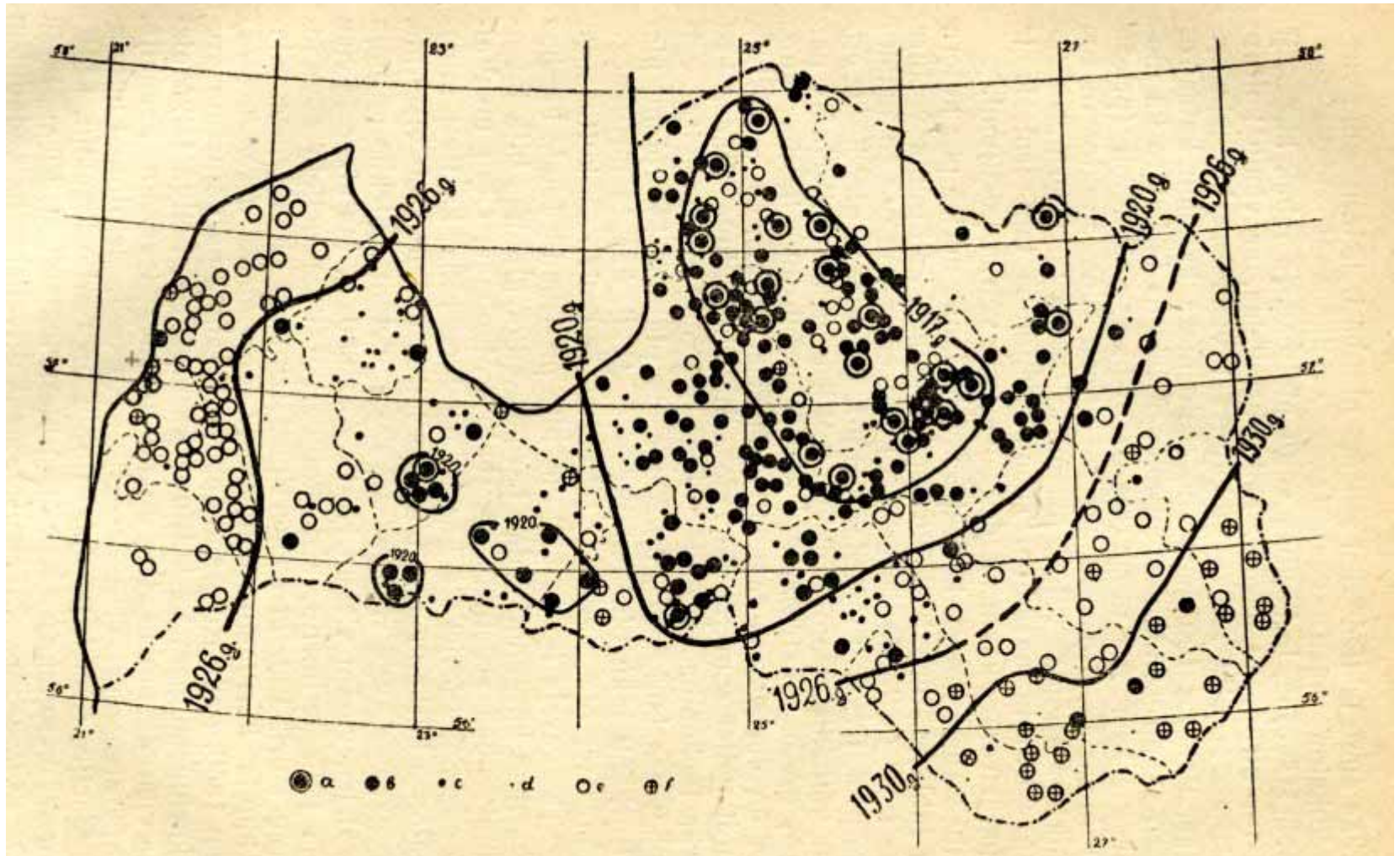
New research of psyllids are started again by
Edgars Ozols (beginning of 20th century)

with studies of distribution and ecology of
important carrot pest – ***Trioza apicalis***

20th century



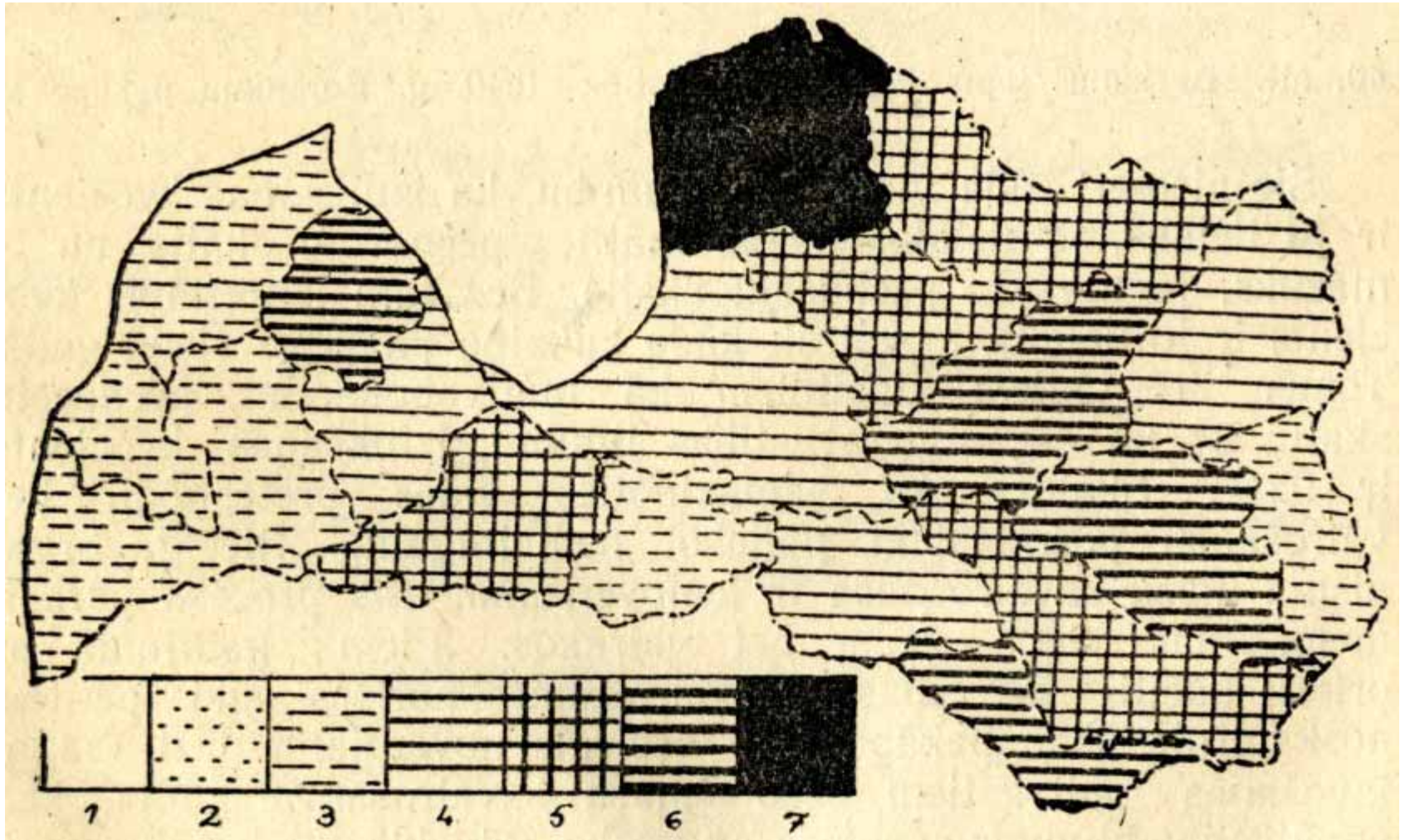
Trioza apicalis studies



20th century



Trioza apicalis studies





Other psyllids

are studied fragmentary (*Cacopsylla mali*, *Trioza dispar*)
and mainly mentioned in lists of pests of **fruit**
(mainly *Cacopsylla mali*) and **ornamental** trees

Psyllids on fruit plants in Latvia (review)



Plants with economical importance

apples

pears

Non-traditional fruit plants

hawthorns

rowans

Apples (*Malus*)



Cacopsylla mali (Schmidberger, 1836)

commune species

Cacopsylla picta (Foerster, 1848)

Pest situation: Mainly old gardens and on old trees, with no or very low economical importance

Pears (*Pyrus*)



Cacopsylla pyri (Linnaeus, 1761) *commune species, locally*

Cacopsylla pyricola (Foerster, 1848) *rare species*

Cacopsylla pyrisuga (Foerster, 1848) *commune species, locally*

Pest situation: Locally with high economical importance
(Cacopsylla pyri and Cacopsylla pyrisuga)

Pears (*Pyrus*)



Pears (*Pyrus*)



European hornet (*Vespa crabro*) visiting psyllid colony on pear,

Hawthorns (*Crataegus*)



Cacopsylla crataegi (Schrank, 1801)

commune species

***Pest situation: Locally
very important pest***



Rowans (*Sorbus*)



Cacopsylla sorbi (Linnaeus, 1758)

Pest situation: Mainly without importance

Some news



***Cacopsylla* sp. on common sea-buckthorn (*Hippophae rhamnoides*)**
Pest situation: Locally with high economical importance

Some news



Psyllids on vines

!?

Cacopsylla sp. on *Vitis* cf. *vinifera*

observed feeding behaviour



Thanks for your attention!