

Invasive Alien Species in EU countries International Workshop

**6-8 October 2009,
Hotel Mercure Budapest Korona**

Dr. János Molnár

International Workshop

- Invasive Alien Species – Plant health aspects
 - EU countries experiences
- Common Ragweed (*Ambrosia artemisiifolia* L.)
 - Morphology, biology
 - Distribution, monitoring
 - Allergy to pollen
 - Control and legal regulation
- Western Corn Rootworm (*Diabrotica virgifera virgifera* LeConte)
 - Hungarian experiences

Invasive Alien Species

- 14 EU countries + EPPO
- 26 foreign + 14 local = total 40 experts
- 20 Ambrosia + 10 Diabrotica = 30 presentations
- 20 foreign + 10 local = 30 presentations
- Opening: Dr. Gellért Gólya, HU PP inspector
- Ambrosia Session Moderator: Michael Kurzweil
- Diabrotica Session Moderator: Lajos Szabó
- Round Table Moderator: Jens-Georg Unger

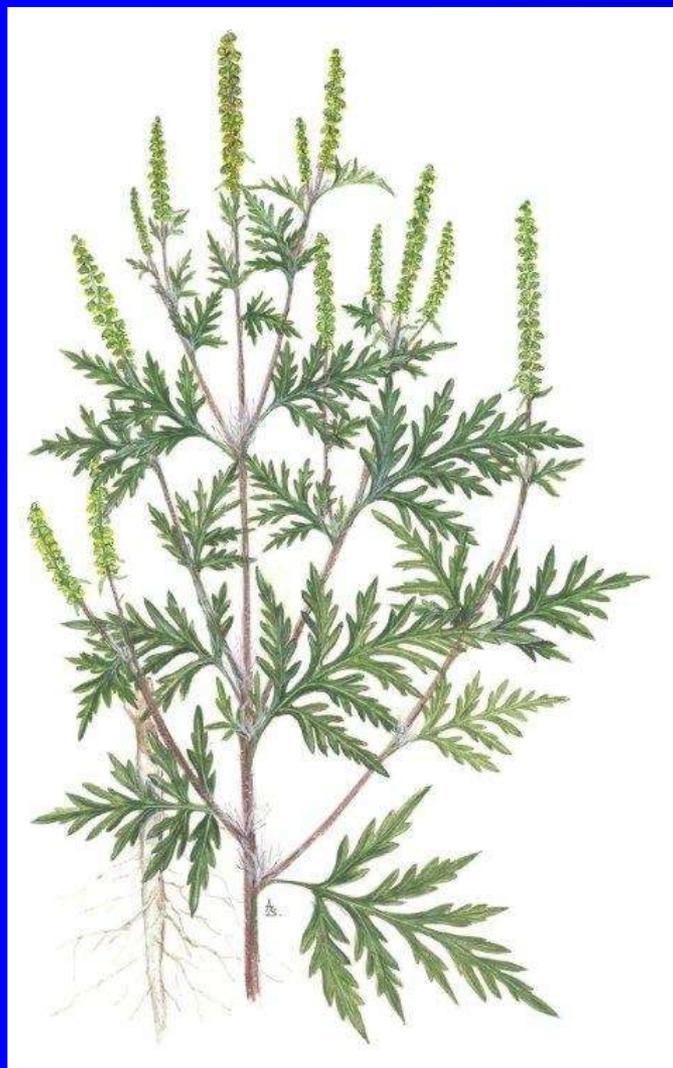
Interactive meeting

- Hungarian Agmin, PP Dept – admin workers
- Interactive – participants active involvement
 - 10' presentation + 5' discussion
 - Ambrosia + Diabrotica session
 - field visit – Ambrosia: field, fruit, buildings
 - brainstorming: surprising but realistic
 - roundtable: conclusions and proposals
 - Docs: PP presentations, publication made from summaries, conclusions and proposals
 - Access to docs: Website of Agmin, Hungary

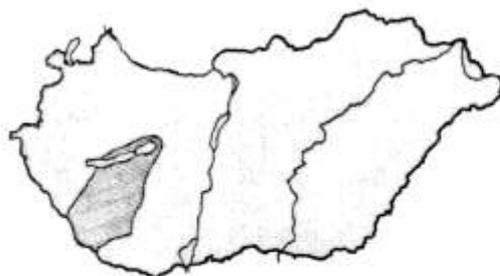
Outcomes of the Workshop

- Milestone to Ambrosia & Diabrotica control
- Compass helping to find the right way
- Invasive Alien Species => EU priorities in 11?
- Preparation to Hungarian EU Presidency

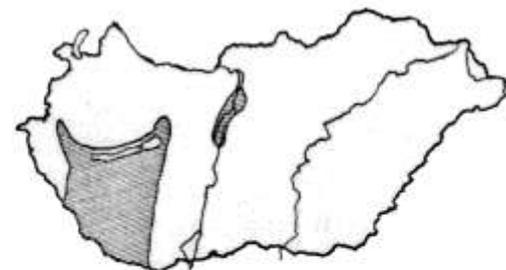
Ambrosia distribution in Hungary



1922 - 1926



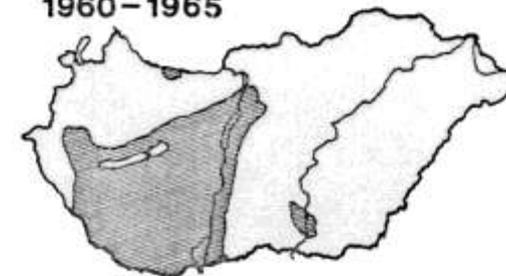
1927 - 1945



1946 - 1959



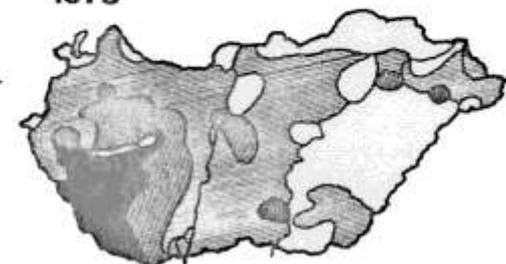
1960 - 1965



1966 - 1977



1978



Ambrosia in Cereals



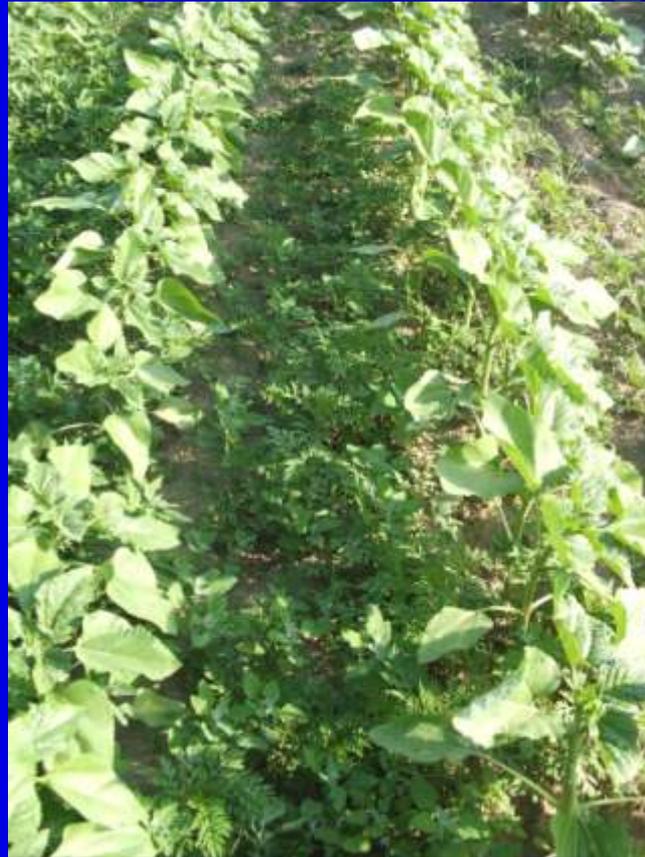
Ambrosia in Stubble



Ambrosia in Maize



Ambrosia in sunflowers



Heavy Ambrosia infestation

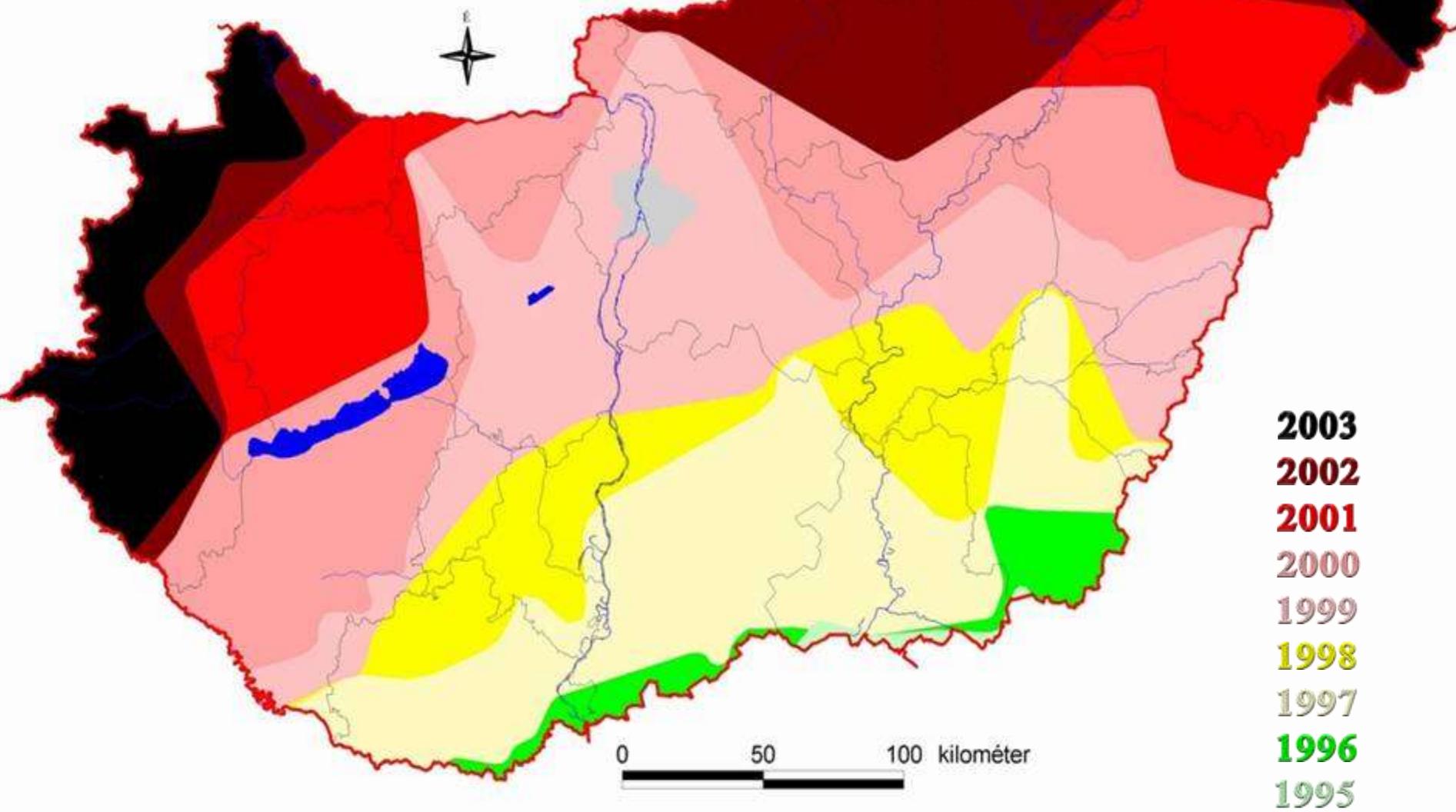


Protection

- After 4-5 years *A. artemisiifolia* populations can be considerably reduced with the application of the integrated weed management methods (*chemical, agrotechnical, mechanical, biological*)
- The main propose:
 - To reduce *Ambrosia* seeds in the soil seed bank
 - To prevent its flowering and seed ripening

Infested sites (agricultural crops, ruderals, natural conservation areas, along the roads, districts of towns) determine the technologies

Az amerikai kukoricabogár (*Diabrotica virgifera virgifera*) elterjedése Magyarországon 1995 - 2003.





Possibilities of the control measures

- **Larval control**
 - Crop rotation
 - Soil treatment
 - ⇒ at sowing (planting)
 - ⇒ postemergence (in crop)
 - Seed treatment
- **Adult control**
 - Foliar spray
 - ⇒ aerial application
 - ⇒ high clearance tractor

Crop rotation

- It is required by the law (7/2001 (I. 17.) FVM): on field where the presence of *Diabrotica* larvae is detected the corn growing is prohibited in the next year

Main advantages:

- The most effective control
- Environment friendly – no pesticide use
- Economical

Main disadvantage:

- Corn is the most profitable field crop in Hungary

Acknowledgements:

- I express my sincere thanks to:
 - Dr. Gabriella Kazinczi for Ambrosia slides
 - Dr. Géza Ripka for Diabrotica slides

Thank You for the attention!

