# INVASIVE SPECIES IN HUNGARY

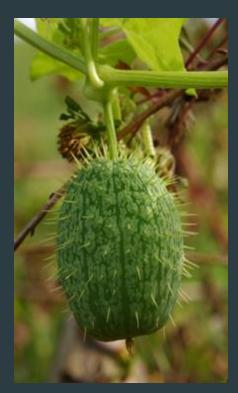
Erasmus+ "Seeds" without borders

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#### Introduction

- Invasive species spreading repidly in Hungary
- ▶ We will present 4 species:
- Canadian goldenrod
- Wild cucumber
- Ailanthus altissima
- Silkweed



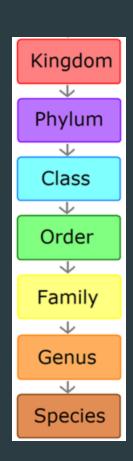






### Canadian goldenrod

#### Scientific classification



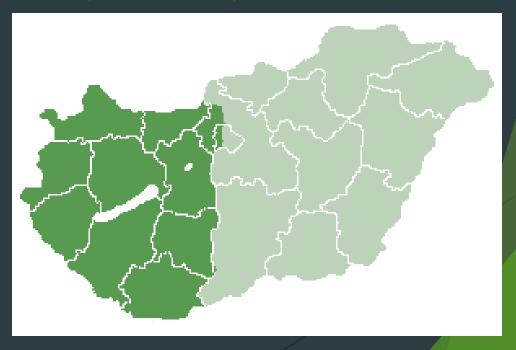
- Kingdom: plants
- Phylum: angiosperms
- Class: dicotyledonous
- Order: asterales
- ► Family: asteraceae
- ► Genus: goldenrod
- Species: Canadian goldenrod



#### Habitat, occurrence

- Native to North America
- Appeared in Europe as an ornamental plant
- Spread like wildflowers
- Hungary, Transdanubia (western half)





#### **Description**

- Creeping rhizome
- ► Large height: 60-200 cm
- Grows quickly
- Straight, non-branching stem covered with hairs
- Spear-shaped, long leaves
- Perennial plant
- Small, yellow flowers







Lance-shaped, elongated leavesYellow flowers

#### Lifestyle

- Undemanding, no care required
- Lives near lakes, gardens and along forests
- Blooms between July and October
- Negative effect: spreads quickly and displaces native species





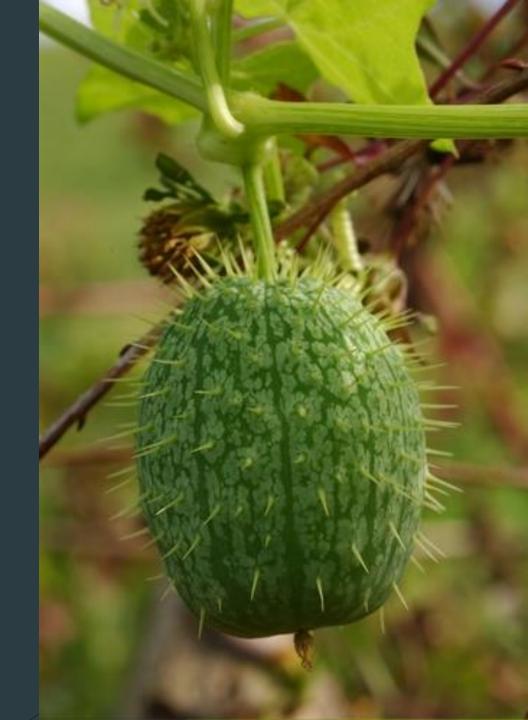
#### Utilization

- Indians began to use it for medicinal purposes
- Herb tea prevents flu, reduces fever, treats kidney stones and heals wounds
- Most important active ingredients: flavonoids, essential oil





### Wild cucumber







#### General infromation

- Cucurbitaceae family
- The only species is Echinocystis lobata
- Wild cucumber, Prickly cucumber or Bur cucumber
- Common invasive spices
- Native to North America
- It was planted as an ornamental plant
- It spreads really quickly and suppresses other plants





#### Stems and leaves

- ▶ 8 m long
- ► Thin, angular, furrowed
- Climb over shrubs and bushes
- Long petioles
- Palm-shaped



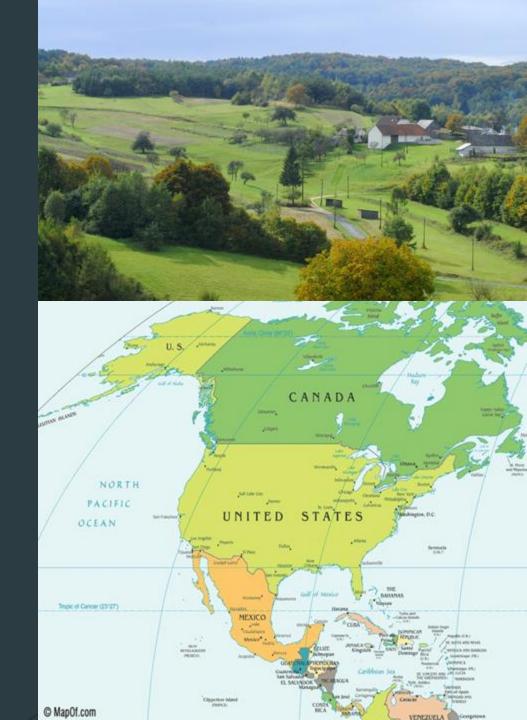


#### Flower and fruit

- Monoecious
- Separate male and female blooms on the same plant
- Prickly, soft, cylindrical
- ▶ 5 cm long
- With four seeds
- Inedible
- Persists all winter

#### Distribution

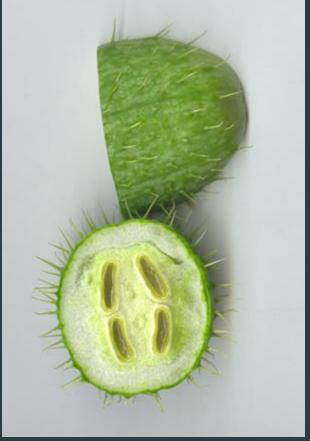
- It is native to North Amerika
- Common invasive species
- Őrség Landscape Protection Area of Hungary
- ► The widespread distribution is determined by climatic factors
- ► The plant can be found along rivers









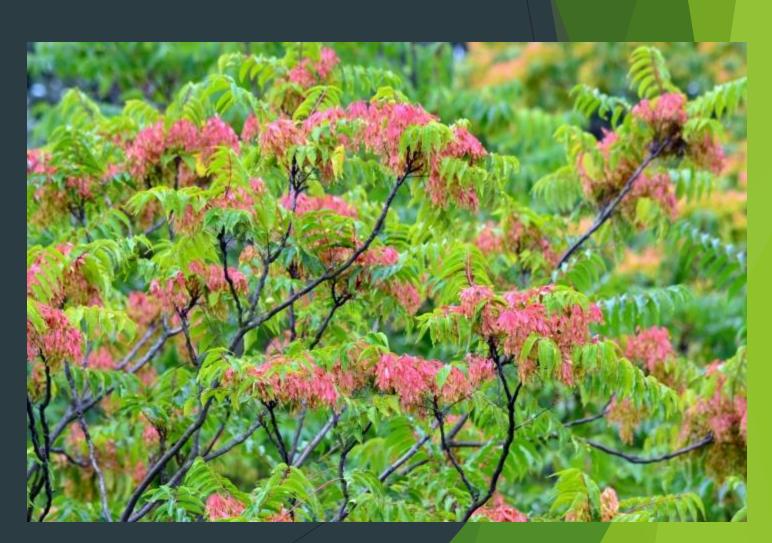




#### Uses

- Medicinally
- Treat rheumatism
- Bitter extract from the roots
- Aphrodisiac and analgesic
- Prepare a poultice to relieve headaches
- Seeds as beads

### AILANTHUS ALTISSIMA



#### Description

- MEDIUM SIZED
- ► THE BARK IS SMOOTH AND LIGHT GREY,
- ► THE LEAVES ARE LARGE (30-90 CM)
- THE FLOWERS ARE SMALL, BUT THEY APPEAR IN LARGE PANICLES (UP TO 50 CM IN LENGHT)



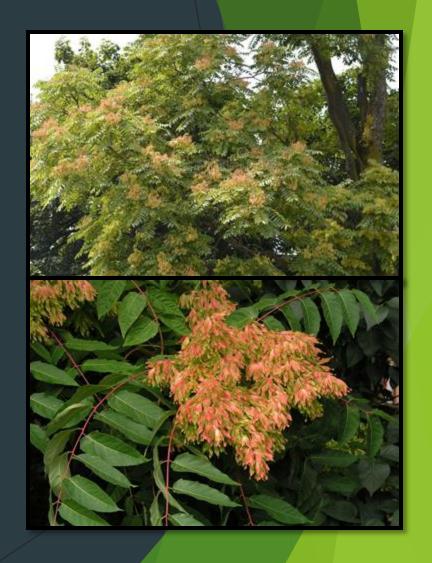
#### Habitat

- ► THE TREE GROWS RAPIDLY
- ► IT IS NATIVE TO CENTRAL AND NORTHERN CHINA, TAIWAN AND NORTHERN KOREA
- ▶ VIGOROUS INVASIVE SPECIES
- ► THE TREE PREFERS MOIST AND LOAMY SOILS



#### The negative effects of the Tree of Heaven

- ► IT'S THICK FOILAGE BLOCKS THE LIGHT FROM NATIVE SPECIES.
- ALLELOPATHIC EFFECT
- ► BECAUSE OF THE PREVIOUS REASON, THE NATIVE PLANT COVER GROWS THINNER
- ► THESE SPECIES ARE ABLE TO HOLD BACK AFFORESTATION PROCESSES FOR DECADES.



#### Protection and elimination

- SPRAYING
- SERIAL STEM LUBRICATION
- ► OR WITH INJECTION



#### History

- ► IN CHINA, THE TREE OF HEAVEN HAS A LONG AND RICH HISTORY
- ► AILANTHUS SILKMOTH, WHICH IS AN ANIMAL INVOLVED IN SILK PRODUCTION.



Ailanthus Silkmoth



### THE SILKWEED



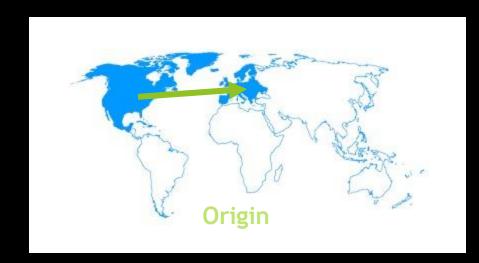
Flying hair



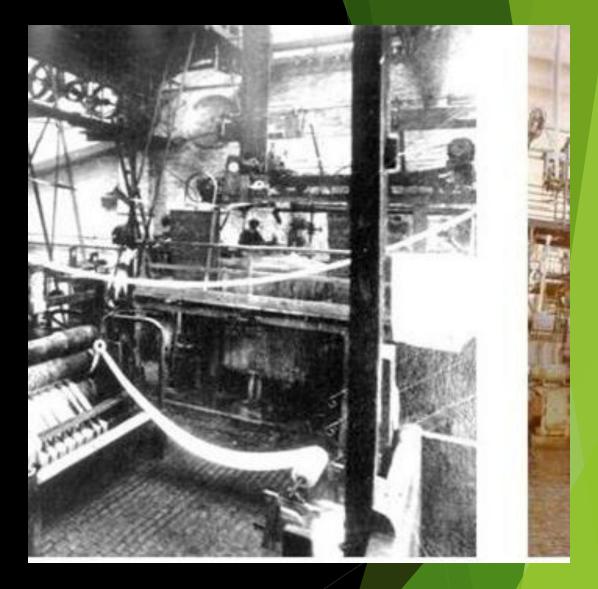


Roots









Textile industry



- ➤ Eradication is very complicated
- ➤ It grows again from its roots





- Its honey is delicious and healthy
- It can be consumed by people with allergies.



## THANK YOU FOR YOUR ATTENTION

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