



# Invasive Alien Species

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# Cost of invasive alien species

## Annual environmental costs of introduced pests:

- Australia US\$ 6.8 billion
- Brazil US\$ 6.7 billion
- India US\$ 25.0 billion
- South Africa US\$ 3.0 billion
- United Kingdom US\$ 6.6 billion
- United States US\$ 58.0 billion

## Worldwide impacts up to US\$ 1.4 trillion annually

- almost 5% of global GDP

*(Pimentel D. et al. 2005: Ecological Economics 52: 273–288)*



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# Identification of invasive alien species



*Taraxacum officinale*



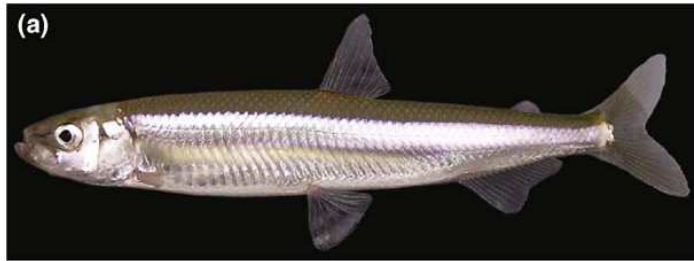
*Taraxacum japonica*



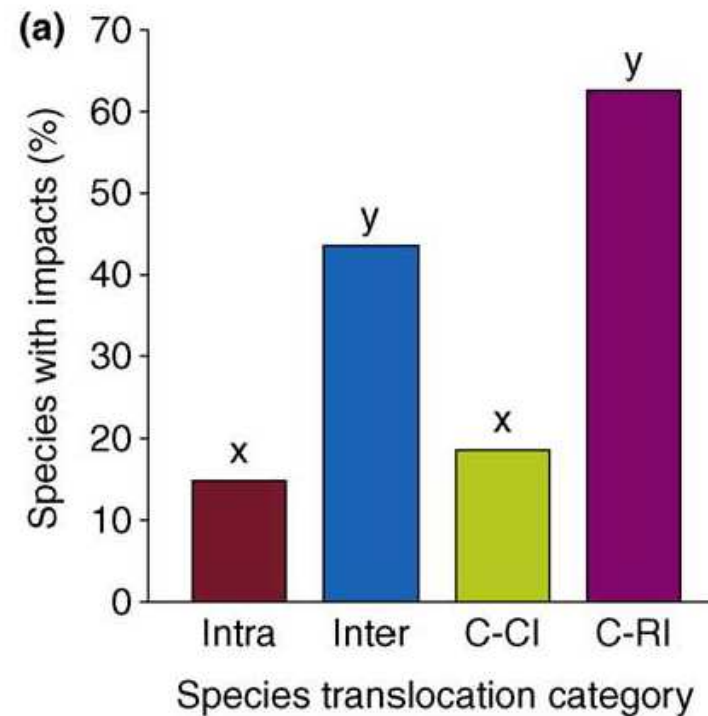
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# Invasive genotype threatens native species

*Hypomesus nipponensis*



*Hypomesus transpacificus*



Ref:Trends in Ecology & Evolution 24: 248-253

## Successful invasion in remote lands

# What capacity is needed?

- PA management
- Aqua/mari-culture management
- Quarantine
- Education – prevention, control, eradication
- Taxonomy
- Risk assessment
- Accessible database on IAS



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