INVASIVE INSECT AND FISH SPECIES IN MORAVICA DISTRICT

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Moravički district (total area of 3016 km²) is located in Central and West part of Serbia.

4 municipalities: Čačak (636 km²), Gornji Milanovac (836 km²), Lučani (454 km²) and Ivanjica (1090 km²).

climate: moderately continental

surface area:
agricultural crops (58.9%)
forests (36.1%).
Harmonia axyridis (Col.: Coccinellidae)

Asian lady beetle, Harlequin ladybird or Halloween beetle

First report, Fruška Gora, avgust 2008

Čačak, October and November 2009-2011
H. axyridis 2009 - 2011 Čačak surrounding

Aggregations near window, doors, ...

yellow stain (unpleasant smell) on surface
Eggs on the fiddle dock leaf (Rumex pulcher L.)

Different forms

H. axyridis

Čačak

surrounding,

2010.
Non specific nutrition

High adaptibility

Direct and indirect influence on autochtonous beneficial entomofauna

Species with extremely high risk

spread in Serbia
<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Year of construction</th>
<th>Area (km²)</th>
<th>Watercourse, river</th>
<th>Purpose</th>
</tr>
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<tbody>
<tr>
<td>Međuvršje</td>
<td>1953</td>
<td>1.5</td>
<td>Z. Morava</td>
<td>Energy production, protection from flood</td>
</tr>
<tr>
<td>Ovčar-Kablar</td>
<td>1953</td>
<td>0.72</td>
<td></td>
<td>Energy production</td>
</tr>
<tr>
<td>Gornji Banjani</td>
<td>1969</td>
<td>0.07</td>
<td>Dičina</td>
<td>Water supply, retention of river deposit</td>
</tr>
<tr>
<td>Goli Kamen</td>
<td>1982</td>
<td>0.075</td>
<td>Crnovrški brook</td>
<td>Technical use, protection from flood</td>
</tr>
</tbody>
</table>

Table 1. The reservoirs of Moravički district
Trapa natans
Vodeni orašak
Oncorhynchus mykiss
Salmo trutta
Ctenopharyngodon idella
Hypophthalmichthys molitrix

Međuvršje, April 2012

weight 24kg
Carassius gibelio
Lepomis gibbosus