



Topmouth Gudgeon - *Pseudorasbora parva*

A small-bodied fish species, native to eastern Asia. It was introduced to new areas as a result of human activities, in particular via fish stocking exercises. Highly adaptable and tolerant it is one of most invasive fish species currently reported in Europe. Now present in 25 sites in England & Wales the species can be a host of non-native diseases.

Management Options:

Chemical Treatment

Rotenone treatment of enclosed waterbodies.

- Suitability:** Enclosed waters that can be hydrologically isolated from the environment for the duration of the treatment.
- Equipment:** Boat fitted with specialist biocide applicator. Life jacket and any other personal protective equipment deemed necessary after risk assessment.
- Efficiency:** Good, if the site is contained.
- Constraints:** Chemicals expensive but cost effective compared to other methods can result in non-target impact on biodiversity and other fish species present. Must be performed by government agencies only.

Species Introduction

Introduction of a piscivorous (fish eating) fish, such as Perch

- Suitability:** Sites at which eradication is not a management outcome and where the presence of a predatory fish will not cause unacceptable non-target impact.
- Equipment:** Section 30 consent. Fish transporter. Life jacket and any other personal protective equipment deemed necessary after risk assessment.
- Efficiency:** Moderate, but will not achieve eradication.
- Constraints:** Does not eradicate Topmouth Gudgeon and will also have an impact on other species. . Must be performed with Environment Agency approval/cooperation.

Water Level Management

Drain and lime the waterbody.

- Suitability:** Sites where sensitive or protected native or commercial species are not present, or can be removed. Need to have complete control over drainage/refill of waterbody.
- Efficiency:** Good, if the site can be dried out completely, or limed, and is not subject to reinvasion.
- Constraints:** Rarely viable and results in non-target impact on biodiversity and other fish species present.

Time Scale

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Chemical												
Species Intro												
Water Level												

NB Chemical treatment dependant on fish spawning times