

## There is a great deal still to learn about flies.

Mapping the distribution of some groups is a major achievement of the Dipterists Forum to date, but the immature stages of the majority of species are still unknown. Many species are becoming increasingly rare as a result of habitat loss and climate change.

Why not join the Dipterists Forum and help us find out more about flies? There is so much still to learn; we welcome beginners and there are always people who can help you out in the early stages. You don't need to be an expert, or even to leave your own garden, to contribute to our knowledge of these fascinating insects.

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# Waste control and nutrient recycling

aquatic and terrestrial environments. vegetable and animal matter - so aiding soil fertility, in both organisms, and enable nutrients to be recycled from decaying animal matter. They break down large bodies for other

#### Biocontrol

insects, slugs and snails – flies are true friends of gardeners. family parasitise caterpillars, while others parasitise scale populations. For example, certain members of the Tachinidae pest species on crops. Parasitic flies have a big impact on pest A Diptera are important as possible biological control of

### Food for other wildlife

for many birds and fish. hies are an abundant aquatic and terrestrial source of food

detrimental to the environment. are cheap, easy to rear, rich in nutrients and not teed, using hy larvae - especially black soldier flies. These \* Flies are now being used in the development of animal

#### Medical and chemical uses

determining postmortem intervals. and last to leave a corpse, and so the most helpful at ★ Forensic entomology – flies are the first to arrive

due to gangrene. release an antiseptic as they do so, reducing amputations at removing necrotic (dead) flesh from wounds and also common procedure, but maggots are extremely efficient 👫 Maggot therapy (debridement therapy) – not a

# The truth about flies

Their diversity, importance and benefits to humans

humans and indirect effects on human health and wellbeing. important to the ecosystem, with direct economic benefits to for a minority of species. But many more are exceptionally in agriculture or as nuisances in human homes. This is true pest species, involved primarily in disease transmission, pests negative interaction. Flies are regarded by most people as Our association with flies has always been seen as one of

# Biodiversity

planet (12% of the planet's biota). and, as such, one of the most species-rich groups found on the \* Flies are one of the top four species-rich orders of insects

list all the time. described in the UK, with new species being added to the UK than 7,000 in the UK. This is about a third of all insects A There are 160,000 species described globally, with more

incredibly extreme environments. They exist in all habitats on all continents, often in

#### Pollination

(Diptera) being the most important. pollination, with Hymenoptera (bees, bumblebees) and flies At least one third of all global agriculture relies on insect

Howers as adults. 150 families of flies include those that feed at

by flies was by non-hoverfly species. Yet recent studies have found that 84% of total pollen carried important pollinator role, but as yet have been poorly studied. from other fly families have been identified as playing an solitary bees and 22 species of bumblebee). Many more species important pollinator species (in comparison to 250 species of ₩ithin hoverflies, over 270 species have been identified as



