

How can wetland creation and restoration be managed without risking nuisance and disease from mosquitoes?

Frances Hawkes

Natural Resources Institute, University of Greenwich
Valuing Nature Conference 28 October 2019

www.wetlandlife.org

@wetlandlife

#wetlandlife







FABULOUS

TECH

BUG SURGE Brits warned of mosquito

invasion this week as Hurricane Dorian

TRAVEL

PUZZ

'perfect storm' for bites Damp spells and high temperatures are ideal conditions for the insect pests





Mosquito misery as wet and hot weather creates

Climate change could cause malaria to spread across UK

EXCLUSIVE Experts predict an onslaught of biting and stinging insects this summer making it the "worst ever"







EXPRESS Home of the Daily and Sunday Express NEWS SHOWBIZ & TV SPORT COMMENT FINANCE

UK disease WARNING: Aggressive tiger mosquitoes to invade UK bringing dengue fever & Zika

SWARMS of highly aggressive mosquitoes threaten to descend on Britain this summer bringing a risk of dengue fever, West Nile virus and zika outbreaks to the UK

PUBLISHED: 11:16, Fri, May 11, 2018 | UPDATED: 15:51, Fri, May 11, 2018



sparks 25C heatwave



The Telegraph



HOME » NEWS » SCIENCE

Plague of mosquitos carrying deadly diseases is headed for Britain, scientists warn

Rising temperatures caused by climate change will make the damp British climate perfect for the disease-carrying insects



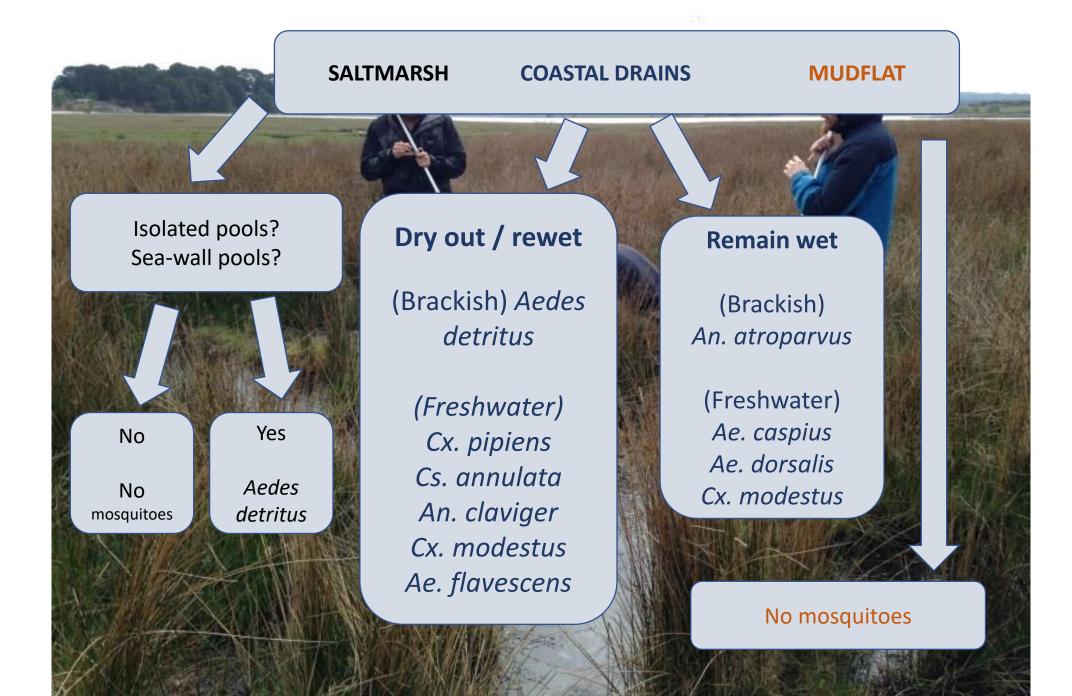
A mosquito Photo: Alamy

Killer mosquito invasion reaches the UK as bugs travel to **Britain from Europe**

The insects, which have arrived in Kent, can spread potentially deadly diseases and have already caused problems across



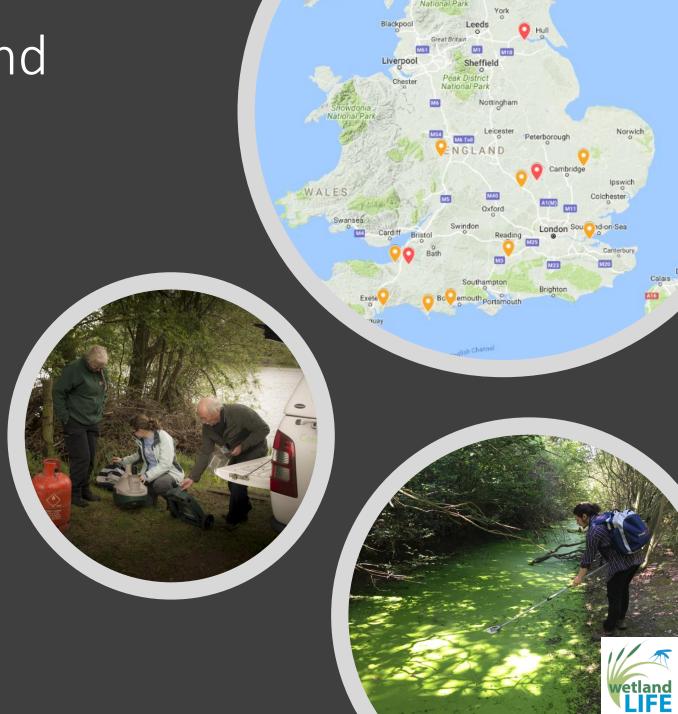






Mosquito sampling and habitat classifications

- 12 diverse English wetlands representing urban, coastal, arable reversion and wet woodland wetland habitats
- Two adult traps per site, run four nights a week every other week May to October
- Larval sampling in accessible aquatic habitats, in May, July and September
- Aquatic habitats codified according to characteristics relevant to mosquito ecology plus BTO scheme





Key findings from Entomology

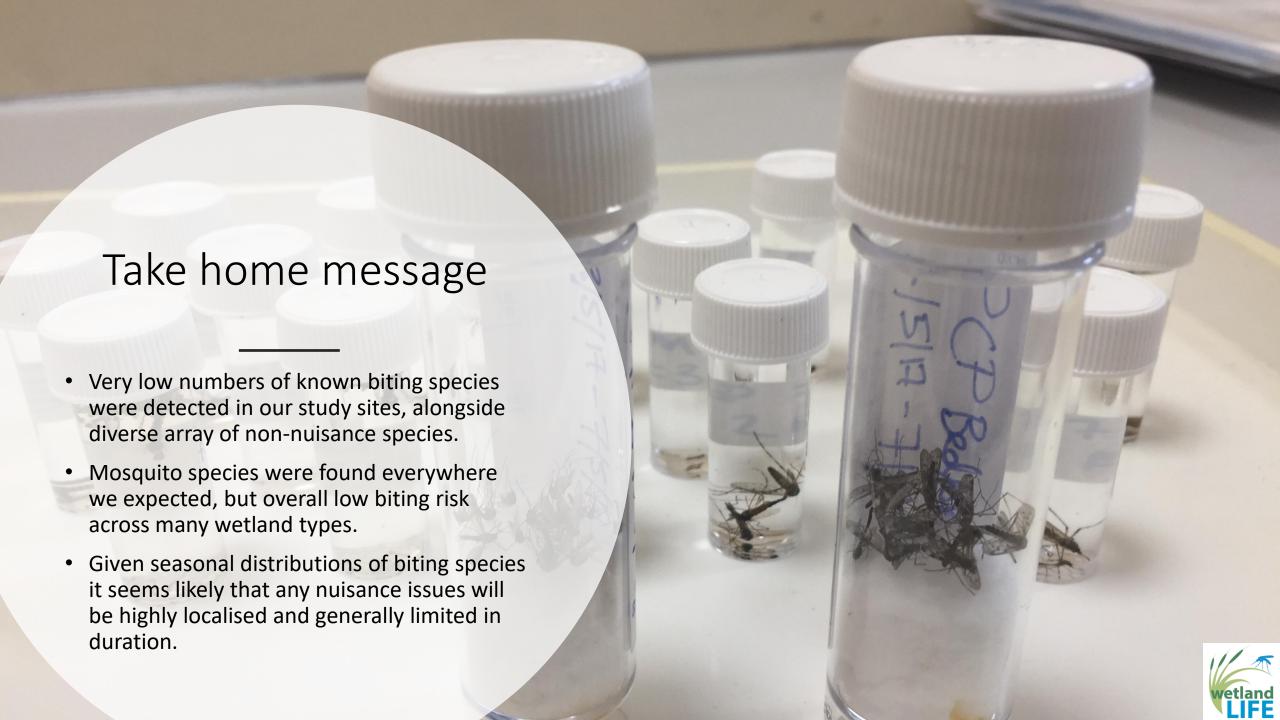
- >39,000 adult mosquitoes collected and identified
- 19 of the 35+ British mosquito species represented
- The trap with the greatest catch in one seasons produced 11,228 mosquitoes
- The trap with the fewest produced only 5 mosquitoes













Acknowledgements

Thanks to all the staff who helped at our study sites:

- All private landowners
- Bedford Borough Council
- Hampshire & Isle of Wight Wildlife Trust
- Natural England
- North Lincolnshire Council
- RSPB
- WWT
- Wyre Forest District Council
- The ento team at PHE and NRI
- The wetlandLIFE team
- The Valuing Nature Programme
- Harrison Lambert, Katy James and Dr Anthony Abbott for field assistance



