



A



Emily Anthes,
science writer

‘Not using GM mosquitoes will leave insecticides for controlling wild mosquito populations. These chemicals can be toxic to beneficial insects as well as other wild critters and may themselves throw ecosystems into disarray. ’

B



Sharon LeDeau,
Scientist



‘Reducing numbers of mosquitoes is vital to protecting human health. Nearly half the world’s population is already at risk for mosquito-borne disease. ’

C



Dr Helen Wallace,
Director of
GeneWatch UK

‘Some biting female GM mosquitoes will be released, and there is not sufficient evidence that being bitten by, or swallowing these mosquitoes will be safe. ’

D



**Professor
Chelsea Smartt,**
Biochemist

‘The removal of one species of mosquito from a region could allow new mosquito species to move into the area, and they could transmit different viruses or the same viruses at a higher rate. ’

E

**Environmental
organisation**



‘The new genes engineered into the insects may jump into other species, causing unintended consequences to the ecosystem. ’

F



Sharon LeDeau,
Scientist



‘Successful population control will require repeated releases of large numbers of GM mosquitoes and less is known about ecological effects at this scale. ’



Statement	A	Statement	B	Statement	C
Risk or benefit?		Risk or benefit?		Risk or benefit?	
Seriousness of risk / size of benefit	1 2 3	Seriousness of risk / size of benefit	1 2 3	Seriousness of risk / size of benefit	1 2 3
Likelihood of it happening	1 2 3	Likelihood of it happening	1 2 3	Likelihood of it happening	1 2 3
Size x likelihood		Size x likelihood		Size x likelihood	

Statement	D	Statement	E	Statement	F
Risk or benefit?		Risk or benefit?		Risk or benefit?	
Seriousness of risk / size of benefit	1 2 3	Seriousness of risk / size of benefit	1 2 3	Seriousness of risk / size of benefit	1 2 3
Likelihood of it happening	1 2 3	Likelihood of it happening	1 2 3	Likelihood of it happening	1 2 3
Size x likelihood		Size x likelihood		Size x likelihood	

Total scores for risks and benefits		
Scores for risks		total score for risks =
Scores for benefits		total score for benefits =