Parameter	Definition
n_i	Number of wild birds of species i present in aviaries areas
$p.infect_i$	Daily probability of a bird of species i to be infectious
$p.perch_i$	Daily probability of a bird of species i to be perched on an aviary
$p.int_i$	Daily probability of a bird of species i to get inside an aviary
p.fecalexcretion	Probability of an infectious bird of species i to shed virus through faecal route
p.featherexcretion	Probability of an infectious bird of species i to shed virus in its feathers
p.organexcretion	Probability of an infectious bird of species i to shed virus in its organs
p.respiexcretion	Probability of an infectious bird of species i to shed virus through respiratory route
p.defecate.perch	Probability of an infectious bird of species i to defecate when perched on an aviary
p.defecate.int	Probability of an infectious bird of species i to defecate when inside an aviary
p.drop.perch	Probability of an infectious bird of species i to drop feathers on the ground when perched on an aviary
p.drop.int	Probability of an infectious bird of species i to drop feathers on the ground when inside an aviary
p.death	Probability of an infectious bird of species i to die and of its carcass to rest on the ground when inside an aviary
p.expectorate	Probability of an infectious bird of species i to expectorate
p.waterfeces.perch	Probability of faeces from an infectious bird of species i to contaminate water when perched on an aviary
p.foodfeces.perch	Probability of faeces from an infectious bird of species i to contaminate food when perched on an aviary

p.fecesground.perch	Probability of faeces from an infectious bird of species i to fall on the ground when perched on an aviary
p.waterfeces.int	Probability of faeces from an infectious bird of species i to contaminate water when inside an aviary
p.foodfeces.int	Probability of faeces from an infectious bird of species i to contaminate food when inside an aviary
p.fecesground.int	Probability of faeces from an infectious bird of species i to fall on the ground when inside an aviary
p.wateraerosols	Probability of aerosols from an infectious bird of species i to contaminate water when inside an aviary
p.foodaerosols	Probability of aerosols from an infectious bird of species i to contaminate food when inside an aviary
p.direct	Probability of a least one bustard to be exposed through direct contact with an infectious bird of species i when inside an aviary
p.feather	Probability of a least one bustard to consume feathers on the ground
p.carcassfeed	Probability of a least one bustard to consume a carcass on the ground
p.water	Probability of a least one bustard to consume water
p.food	Probability of a least one bustard to consume food
p.feces	Probability of a least one bustard to consume faeces on the ground

Table 1. Parameters associated with the events of the scenario trees.