

Parameter	Description	Distribution	Type
SEED BAG BURIAL EXPERIMENTS			
$\mu_{0,i}^{\text{decay}}$	Population mean rate parameter	$N(0, 1)$	Weakly informative
$\sigma_{0,i}^{\text{decay}}$	Population S.D. of rate parameter	$N(0, 1)^+$	Weakly informative
$\sigma_{0,ij}^{\text{decay}}$	Population and year S.D. of rate parameter	$N(0, 1)^+$	Weakly informative
$\beta_{ij}^{\text{decay}}$	Population and year shape parameter of beta	$\text{gamma}(2, 2)$	Weakly informative
$\mu_{0,ik}^{\text{germ}}$	Population mean germination	$N(0, 1)$	Weakly informative
$\sigma_{0,ik}^{\text{germ}}$	Population S.D. of germination	$N(0, 2)^+$	Slightly informative
$\sigma_{0,ijk}^{\text{germ}}$	Population and year S.D. of germination	$N(0, 1)^+$	Weakly informative
$\mu_{0,ik}^{\text{so}}$	Population mean survival from seed production to 1st October	$N(0, 1)$	Weakly informative
$\sigma_{0,ik}^{\text{so}}$	Population S.D. of survival from seed production to 1st October	$N(0, 2)^+$	Slightly informative
$\sigma_{0,ijk}^{\text{so}}$	Population and year S.D. of survival from seed production to 1st October	$N(0, 1)^+$	Weakly informative
SEEDLING SURVIVAL TO FRUITING			
$\mu_{0,i}^{\text{surv}}$	Population mean seedling survival	$N(0, 1)$	Weakly informative
$\sigma_{0,ij}^{\text{surv}}$	Population S.D. of seedling survival	$N(0, 1)^+$	Weakly informative
$\sigma_{0,ij}^{\text{surv}}$	Population and year S.D. of seedling survival	$N(0, 1)^+$	Weakly informative
POISSON LIKELIHOOD			
$\nu_{0,i}^{\text{seeds}}$	Population mean, log-scale	$\text{gamma}(1, 1)$	see text
$\sigma_{0,i}^{\text{seeds}}$	Population S.D., log-scale	$N(0, 1)^+$	see text
$\sigma_{0,ij}^{\text{seeds}}$	Population and year S.D., log-scale	$N(0, 1)^+$	see text