Gene drive in females  $(p_{shred})$ Gene drive in females  $(p_{shred}) \times \text{Initial freq. } W\text{-shredding resistance}$ W-linked resistance  $(\mu_W)$  × Initial freq. W-shredding resistance W-linked resistance  $(\mu_W)$ Shape of density dependence  $(\alpha)$ Shape of density dependence  $(\alpha)$  × Initial freq. W-shredding resistance Gene drive in males  $(p_{conv})$ Gene drive in males  $(p_{conv}) \times \text{Initial freq. } W\text{-shredding resistance}$ Gene drive in males  $(p_{conv}) \times \text{Cost of } Z^*$  to females  $(c_f)$ Gene drive in females  $(p_{shred}) \times W$ -linked resistance  $(\mu_W)$ Maximum fecundity (r)Maximum fecundity  $(r) \times \text{Initial freq. } W\text{-shredding resistance}$ Gene drive in females  $(p_{shred}) \times$  Gene drive in males  $(p_{conv})$ Rate of NHEJ  $(p_{nhej}) \times \text{Cost of } Z^*$  to females  $(c_f)$ Gene drive in females  $(p_{shred}) \times \text{Shape of density dependence } (\alpha)$ Cost of  $Z^*$  to females  $(c_f)$ Cost of  $Z^*$  to females  $(c_f) \times \text{Number of patches } (k)$ Cost of  $Z^*$  to females  $(c_f) \times$  Initial freq. W-shredding resistance Rate of NHEJ  $(p_{nhej})$ Male effect on density  $(\delta)$ Male effect on density  $(\delta) \times \text{Initial freq. } W\text{-shredding resistance}$ Rate of NHEJ  $(p_{nhej})$  × Initial freq. W-shredding resistance Gene drive in females  $(p_{shred}) \times \text{Maximum fecundity } (r)$ Shape of density dependence  $(\alpha) \times \text{Maximum fecundity } (r)$ 0.1 0.0 Absolute effect size ( $\pm$  95% CIs)

Initial freq. W-shredding resistance

0.3

0.4

0.2