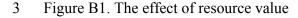
1

APPENDIX B: Effect of changing the parameter values

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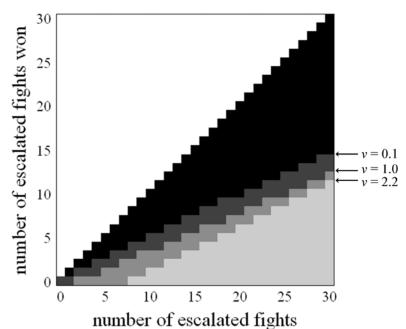


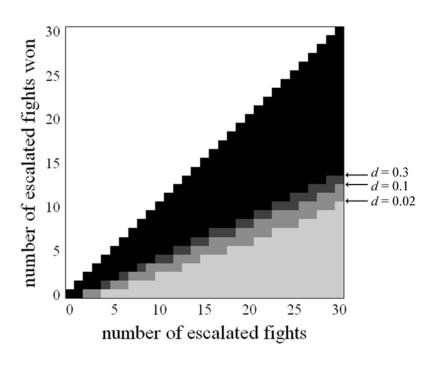
- 4 (v) on the switchpoint between non-
- 5 aggressive ($P_H < 0.5$) and aggressive
- 6 $(P_H \ge 0.5)$ behaviour under the ESS.
- 7 For each value of v, aggression is
- 8 greater above the dividing line (darker
- 9 region) than below it (lighter region).
- 10 Other parameter values: c = 1.0, $\gamma =$
- 11 0.1, $p_0 = p_1 = 0.5$, d = 0.1, F = 30, $\varepsilon =$
- 12 0.005.

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- Figure B2. The effect of mortality rate
- 15 (d) on the switchpoint between non-
- 16 aggressive ($P_H < 0.5$) and aggressive
- 17 $(P_H \ge 0.5)$ behaviour under the ESS.
- 18 For each value of d, aggression is
- 19 greater above the dividing line (darker
- 20 region) than below it (lighter region).
- Other parameter values: v = 1.0, c =
- 22 1.0, $\gamma = 0.1$, $p_0 = p_1 = 0.5$, F = 30, $\varepsilon =$
- 23 0.005.





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25 Figure B3. The effect of the chance 26 that a weaker individual defeats a 27 stronger individual in a fight (γ) on the 28 switchpoint between non-aggressive $(P_H < 0.5)$ and aggressive $(P_H \ge 0.5)$ 29 behaviour under the ESS. For each 30 31 value of γ , aggression is greater above

the dividing line (darker region) than

below it (lighter region). Other

parameter values: v = 1.0, c = 1.0, $p_0 =$

number of escalated fights won 25 20 15 10 5

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number of escalated fights

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 $p_1 = 0.5$, d = 0.1, F = 30, $\varepsilon = 0.005$. 35

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Figure B4. The effect of the proportion of strong individuals (p_1) on the switchpoint between non-aggressive $(P_H < 0.5)$ and aggressive $(P_H \ge 0.5)$ behaviour under the ESS. For each value of p_1 , aggression is greater above the dividing line (darker region) than below it (lighter region). Other parameter values: v = 1.0, c = 1.0, $\gamma =$

0.1, d = 0.1, F = 30, $\varepsilon = 0.005$.

