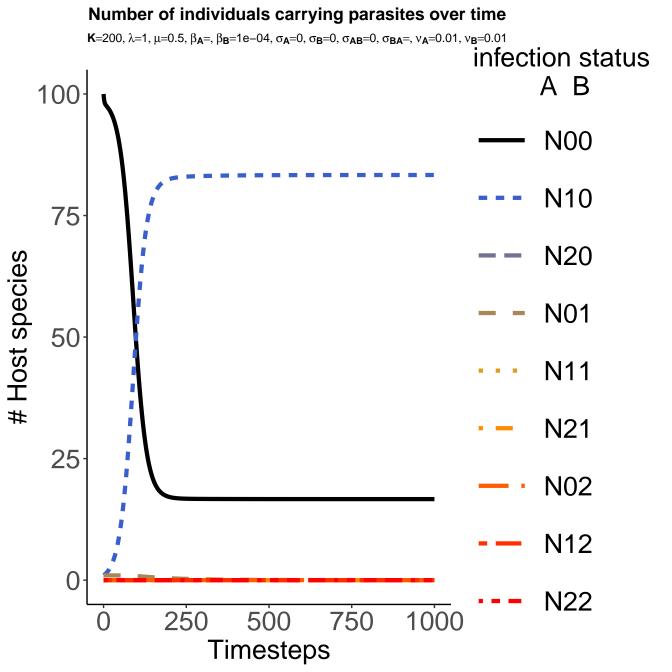


Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=1e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=1e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 750 250 500 1000 **Timesteps** 

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# Number of individuals carrying parasites over time $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=1e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status AB100 N00 N10 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 500 750 1000 250 **Timesteps**

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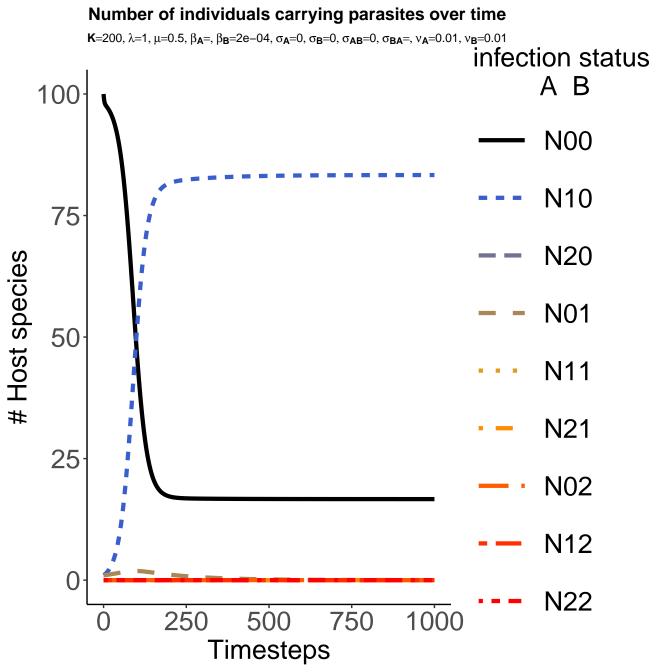
Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=2e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=2e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

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Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=2e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status AB100 N00 **N10** 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 N12 0 N22 500 750 250 1000 **Timesteps** 

Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=3e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status AB100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N<sub>0</sub>2 N12 0 N22 750 500 1000 250 **Timesteps** 

Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=3e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

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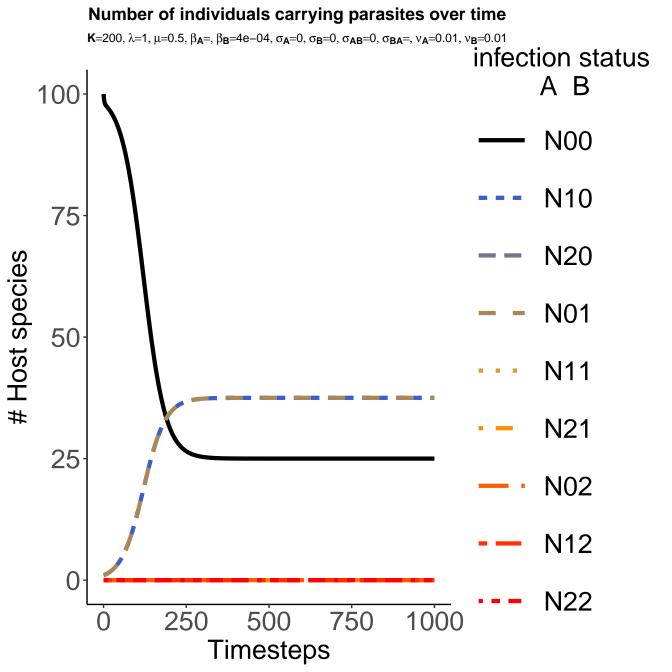
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Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=4e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status AB100 N00 N10 75 **N20** # Host species N01 50 N11 N21 25 N02 N12 0 N22 500 750 1000 250 **Timesteps** 

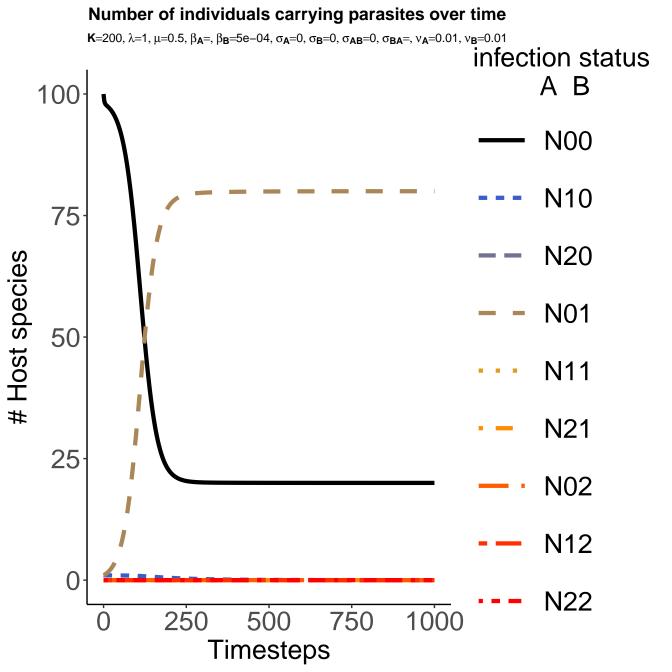
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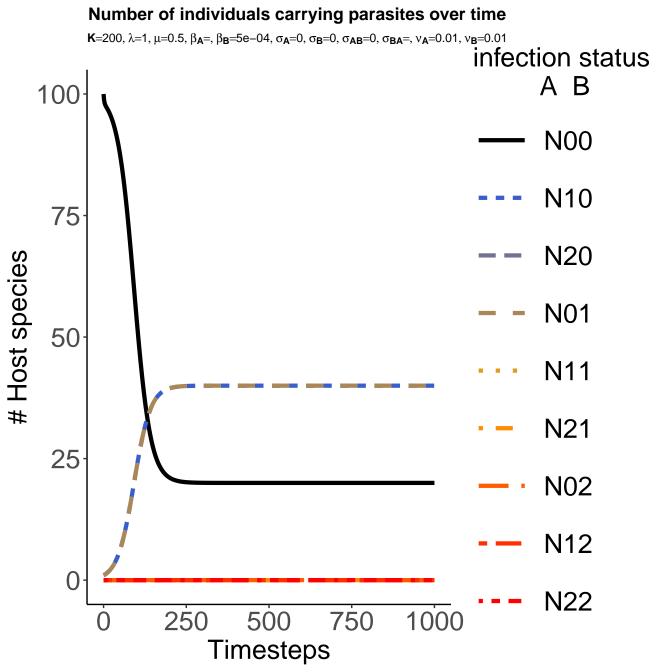
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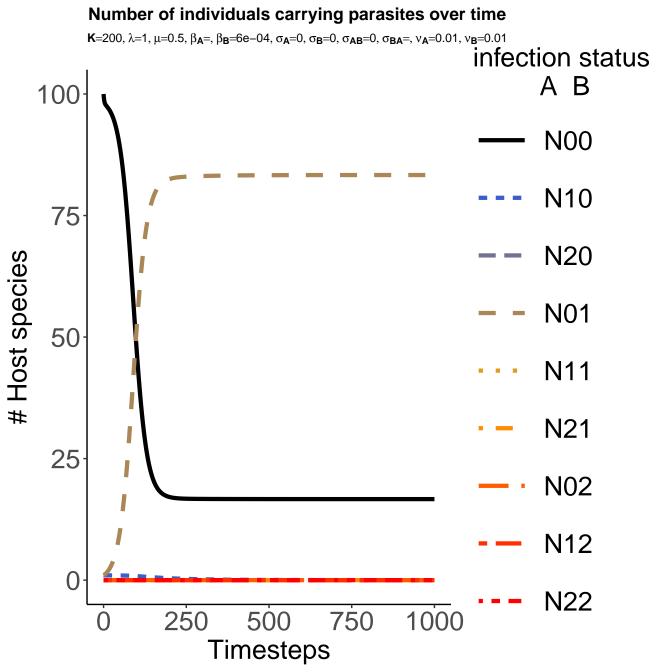


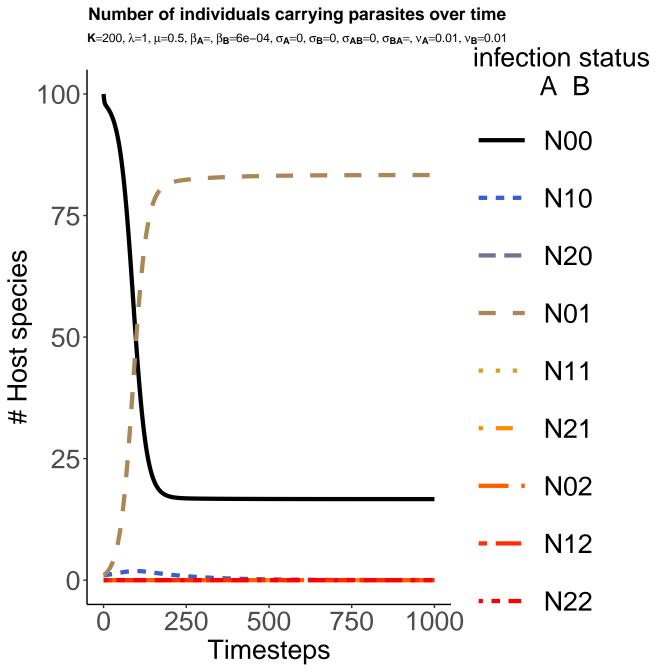
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Number of individuals carrying parasites over time  $K=200, \lambda=1, \mu=0.5, \beta_{A}=, \beta_{B}=4e-04, \sigma_{A}=0, \sigma_{B}=0, \sigma_{AB}=0, \sigma_{BA}=, \nu_{A}=0.01, \nu_{B}=0.01$ infection status AB100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N<sub>0</sub>2 N12 0 N22 750 250 500 1000 **Timesteps** 



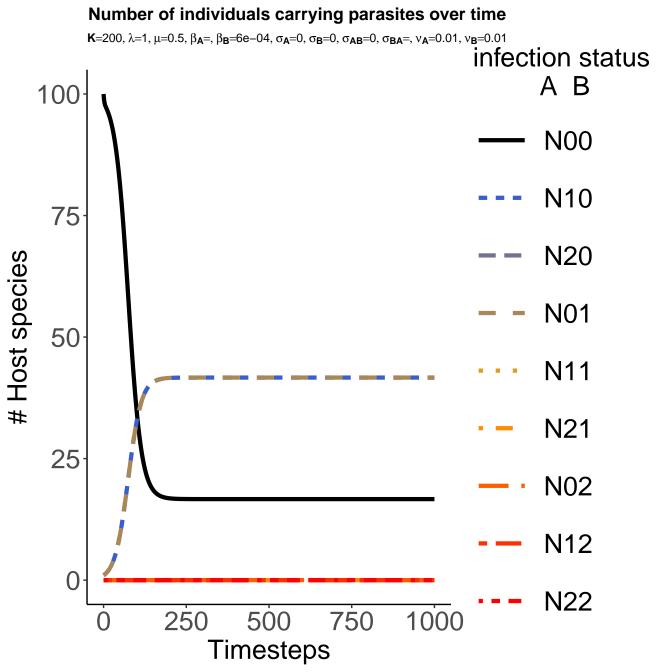


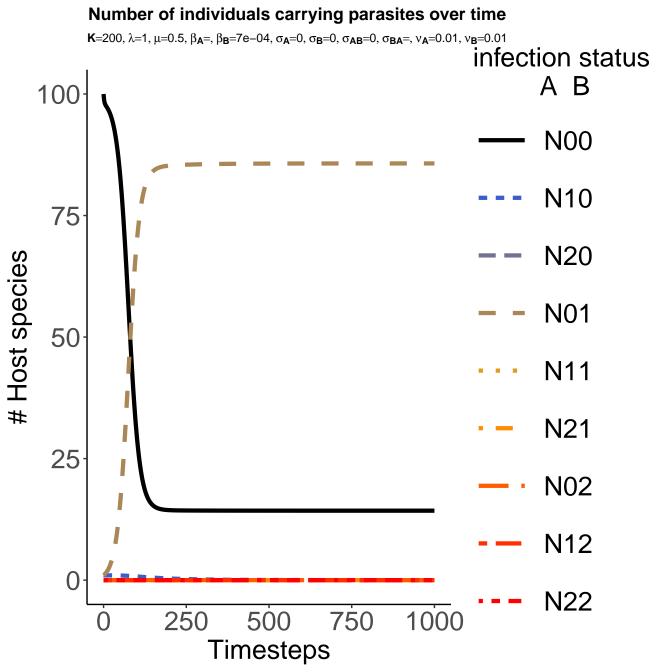


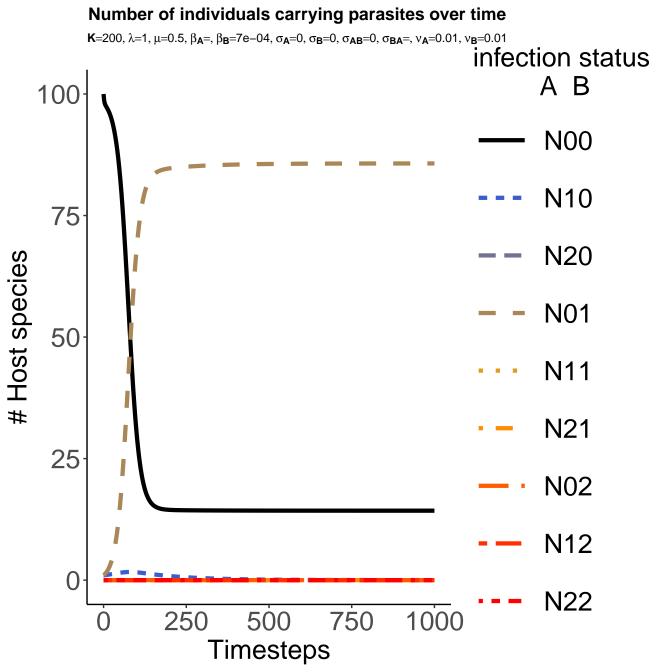


Number of individuals carrying parasites over time  $\textbf{K}\!\!=\!\!200,\,\lambda\!\!=\!\!1,\,\mu\!\!=\!\!0.5,\,\beta_{\textbf{A}}\!\!=\!\!,\,\beta_{\textbf{B}}\!\!=\!\!6e\!-\!04,\,\sigma_{\textbf{A}}\!\!=\!\!0,\,\sigma_{\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{AB}}\!\!=\!\!0,\,\sigma_{\textbf{BA}}\!\!=\!\!,\,\nu_{\textbf{A}}\!\!=\!\!0.01,\nu_{\textbf{B}}\!\!=\!\!0.01$ infection status AB100 N00 N10 75 **N20** # Host species N01 50 N11 N21 25 N02 N12 0 N22 750 500 1000 250 **Timesteps** 

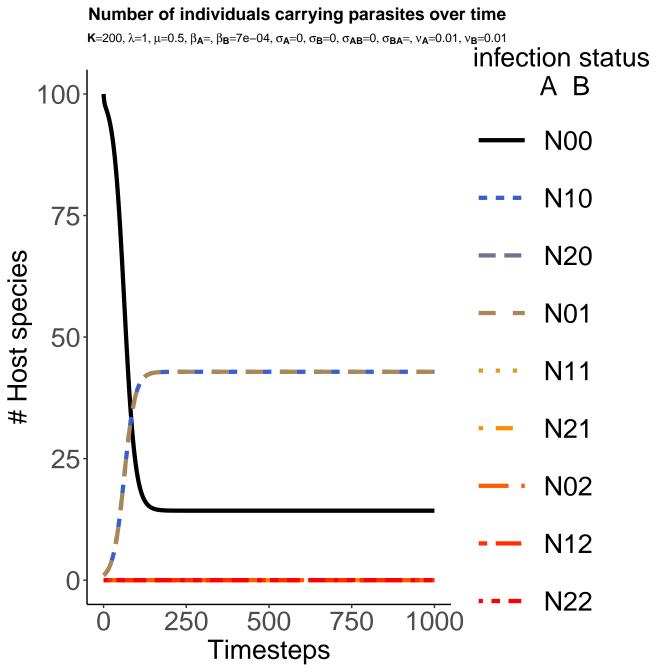
Number of individuals carrying parasites over time  $\textbf{K}\!\!=\!\!200,\,\lambda\!\!=\!\!1,\,\mu\!\!=\!\!0.5,\,\beta_{\textbf{A}}\!\!=\!\!,\,\beta_{\textbf{B}}\!\!=\!\!6e\!-\!04,\,\sigma_{\textbf{A}}\!\!=\!\!0,\,\sigma_{\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{A}\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{B}\textbf{A}}\!\!=\!\!,\,\nu_{\textbf{A}}\!\!=\!\!0.01,\,\nu_{\textbf{B}}\!\!=\!\!0.01$ infection status AB100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 N12 0 N22 750 500 250 1000 **Timesteps** 



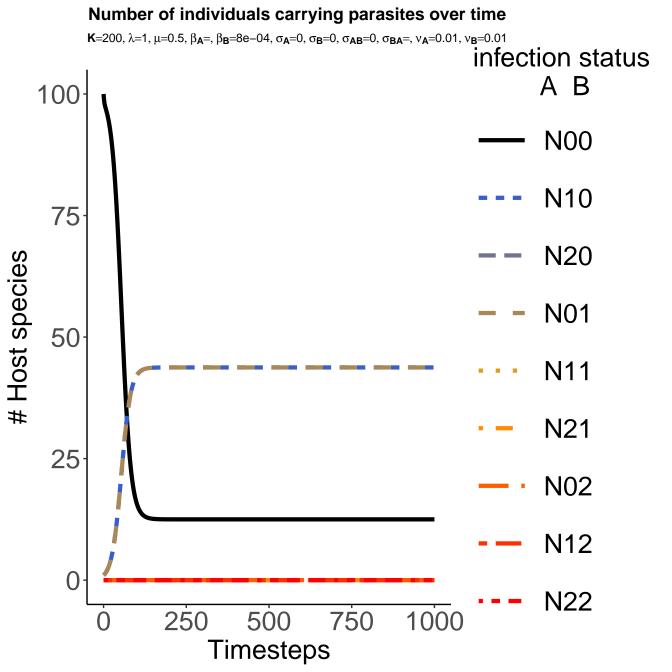




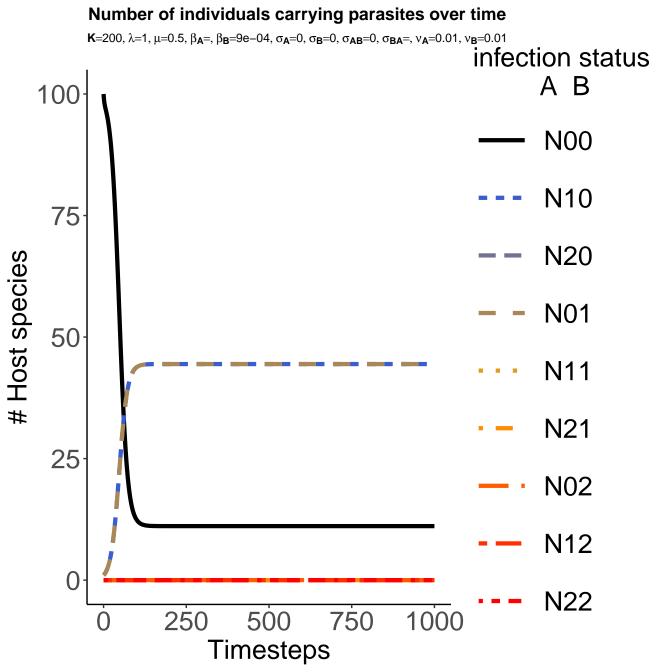
Number of individuals carrying parasites over time  $\textbf{K}\!\!=\!\!200,\,\lambda\!\!=\!\!1,\,\mu\!\!=\!\!0.5,\,\beta_{\textbf{A}}\!\!=\!\!,\,\beta_{\textbf{B}}\!\!=\!\!7e\!-\!04,\,\sigma_{\textbf{A}}\!\!=\!\!0,\,\sigma_{\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{A}\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{B}\textbf{A}}\!\!=\!\!,\,\nu_{\textbf{A}}\!\!=\!\!0.01,\,\nu_{\textbf{B}}\!\!=\!\!0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 **N11** N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

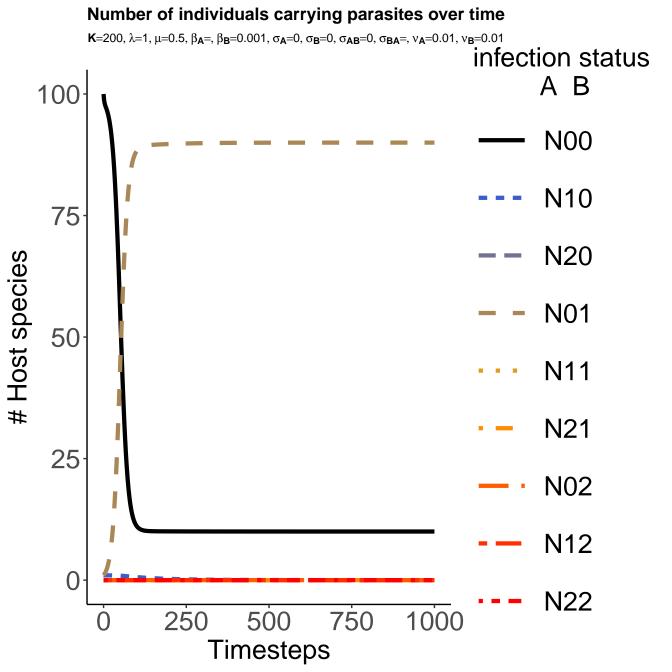


Number of individuals carrying parasites over time  $\textbf{K}\!\!=\!\!200,\,\lambda\!\!=\!\!1,\,\mu\!\!=\!\!0.5,\,\beta_{\textbf{A}}\!\!=\!\!,\,\beta_{\textbf{B}}\!\!=\!\!8e\!-\!04,\,\sigma_{\textbf{A}}\!\!=\!\!0,\,\sigma_{\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{A}\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{B}\textbf{A}}\!\!=\!\!,\,\nu_{\textbf{A}}\!\!=\!\!0.01,\,\nu_{\textbf{B}}\!\!=\!\!0.01$ infection status AB100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N<sub>0</sub>2 N12 0 N22 750 250 500 1000 **Timesteps** 

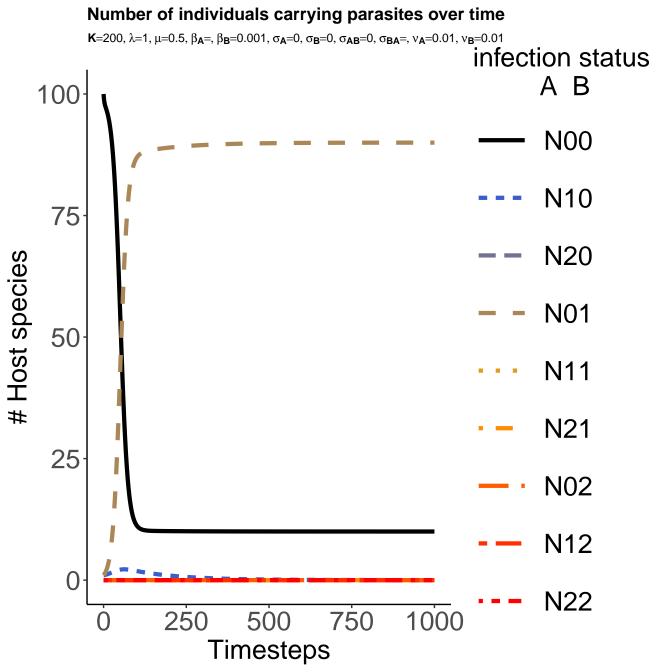


Number of individuals carrying parasites over time  $\textbf{K}\!\!=\!\!200,\,\lambda\!\!=\!\!1,\,\mu\!\!=\!\!0.5,\,\beta_{\textbf{A}}\!\!=\!\!,\,\beta_{\textbf{B}}\!\!=\!\!9e\!-\!04,\,\sigma_{\textbf{A}}\!\!=\!\!0,\,\sigma_{\textbf{B}}\!\!=\!\!0,\,\sigma_{\textbf{AB}}\!\!=\!\!0,\,\sigma_{\textbf{BA}}\!\!=\!\!,\,\nu_{\textbf{A}}\!\!=\!\!0.01,\nu_{\textbf{B}}\!\!=\!\!0.01$ infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 N12 0 N22 750 250 500 1000 **Timesteps** 





# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status AB100 N00 **N10** 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 500 750 250 1000 **Timesteps**



# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 500 750 250 1000 **Timesteps**

# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 750 250 500 1000 **Timesteps**

# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 500 1000 250 **Timesteps**

# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 N12 0 N22 750 250 500 1000 **Timesteps**

Number of individuals carrying parasites over time **K**=200,  $\lambda$ =1,  $\mu$ =0.5,  $\beta$ <sub>A</sub>=,  $\beta$ <sub>B</sub>=0.001,  $\sigma$ <sub>A</sub>=0,  $\sigma$ <sub>B</sub>=0,  $\sigma$ <sub>AB</sub>=0,  $\sigma$ <sub>BA</sub>=,  $\nu$ <sub>A</sub>=0.01,  $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 750 250 500 1000 **Timesteps** 

Number of individuals carrying parasites over time **K**=200,  $\lambda$ =1,  $\mu$ =0.5,  $\beta$ <sub>A</sub>=,  $\beta$ <sub>B</sub>=0.001,  $\sigma$ <sub>A</sub>=0,  $\sigma$ <sub>B</sub>=0,  $\sigma$ <sub>AB</sub>=0,  $\sigma$ <sub>BA</sub>=,  $\nu$ <sub>A</sub>=0.01,  $\nu$ <sub>B</sub>=0.01 infection status A B 100 N00 N10 75 N20 # Host species N01 50 N11 N21 25 N02 **N12** 0 N22 750 250 500 1000 **Timesteps** 

# Number of individuals carrying parasites over time **K**=200, $\lambda$ =1, $\mu$ =0.5, $\beta$ <sub>A</sub>=, $\beta$ <sub>B</sub>=0.001, $\sigma$ <sub>A</sub>=0, $\sigma$ <sub>B</sub>=0, $\sigma$ <sub>AB</sub>=0, $\sigma$ <sub>BA</sub>=, $\nu$ <sub>A</sub>=0.01, $\nu$ <sub>B</sub>=0.01 infection status AB100 **N00 N10** 75 **N20** # Host species N01 50 N11 N21 25 N<sub>0</sub>2 **N12** 0 N22 500 750 250 1000 **Timesteps**