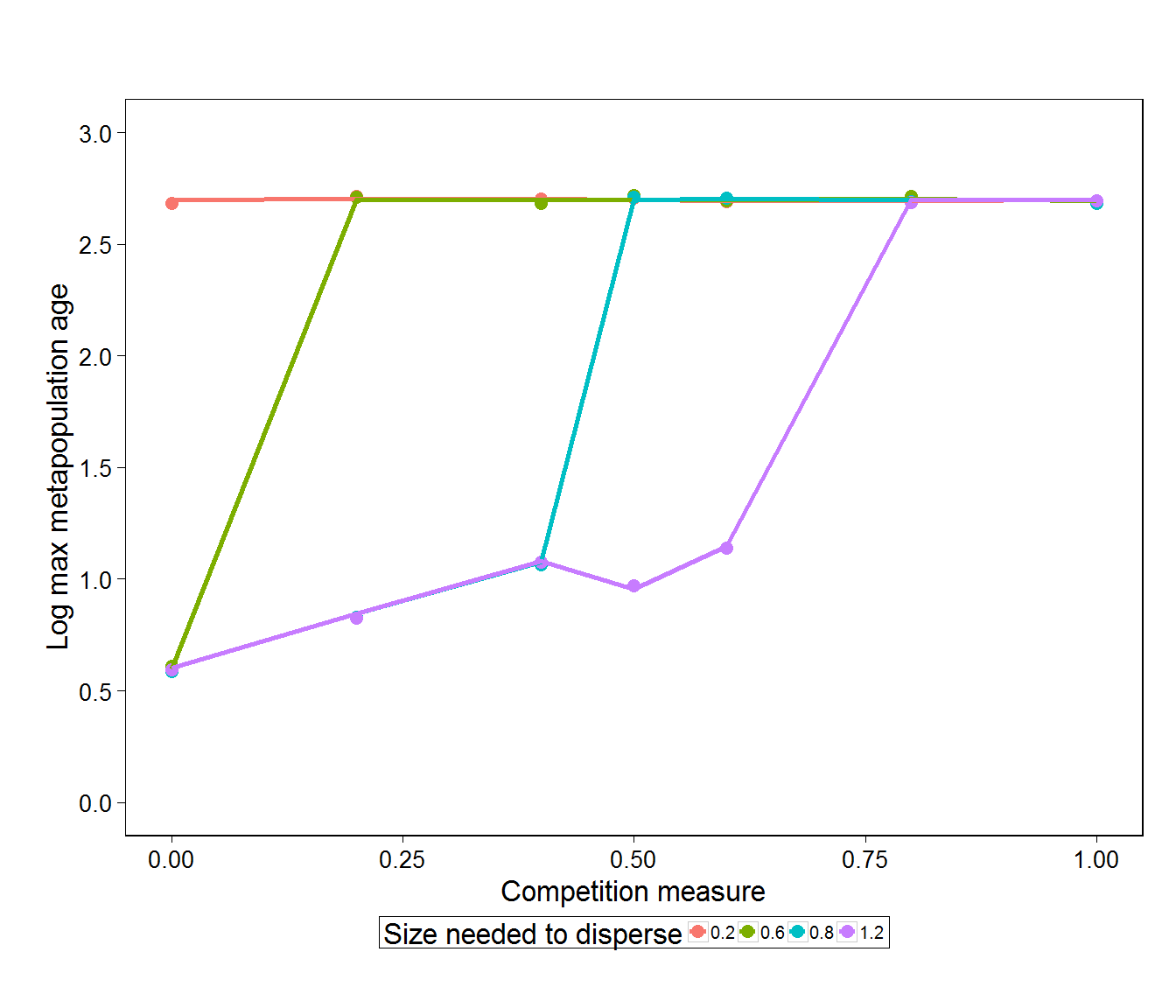
Dispersal Model Graphs

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# Metapopulation Age Until Extinction



1. *Figure :Metapopulation survival against competition type, where competition type ranges from 0 to 1, with 0 being full scramble competition and 1 is full contest competition. Environmental variance is 0 and number of offspring set to `r no\_off'. No generations removed*

As competition changes from scramble to contest competition the metapopulation age increases, but this interacts with the body size needed to disperse.

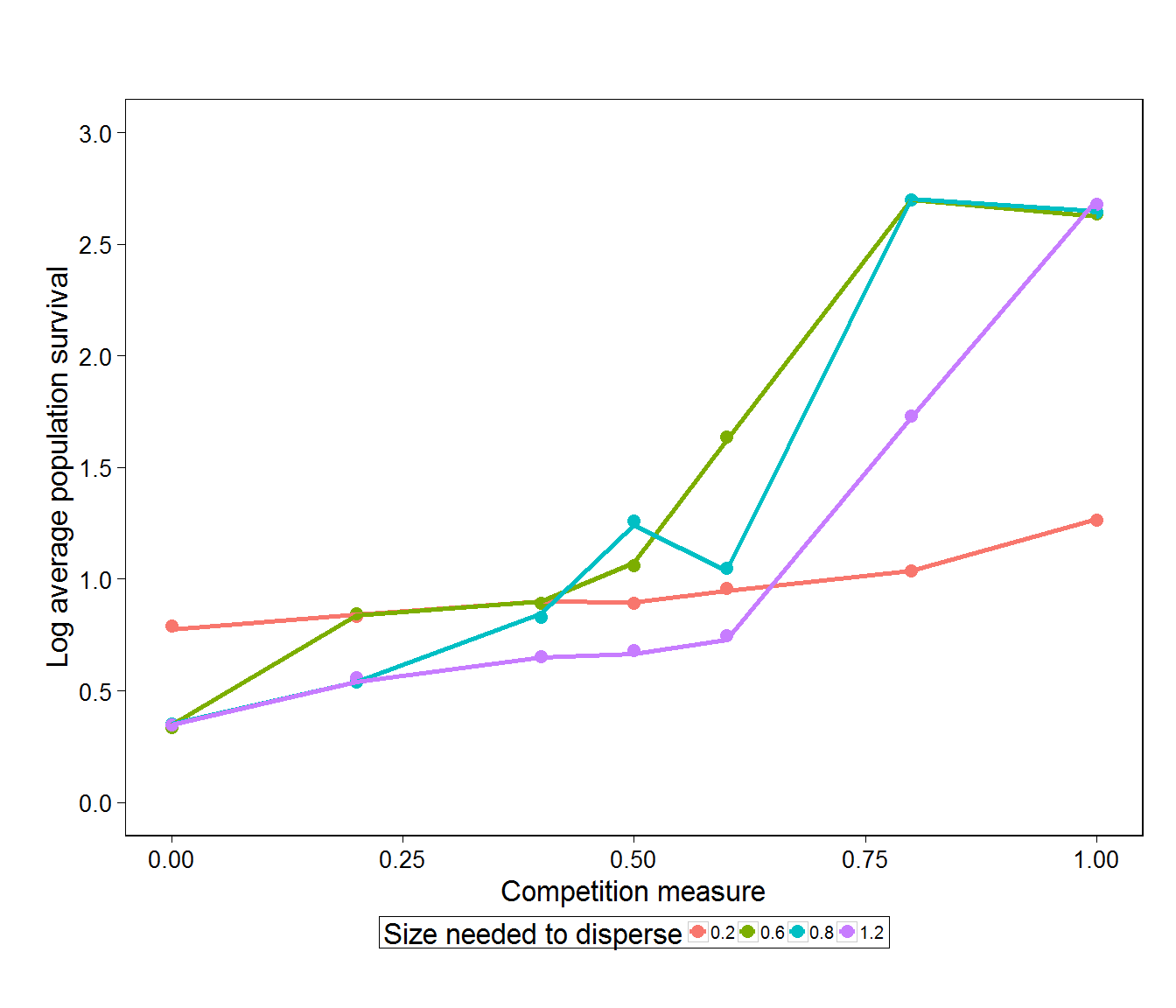
***Why dispersal increases metapopulation survival?***

The simulation only starts with x number of colonies, but there are ‘spaces’ for 200. More dispersal means that these spaces get filled up.

**How does this interact with competition?**

If food is shared via contests comp…..

# Population survival



1. *Figure :Population survival against competition type, where competition type ranges from 0 to 1, with 0 being full scramble competition and 1 is full contest competition. Environmental variance is 0 and number of offspring set to `r no\_off'. All generations included. Survival calculated from survival function*