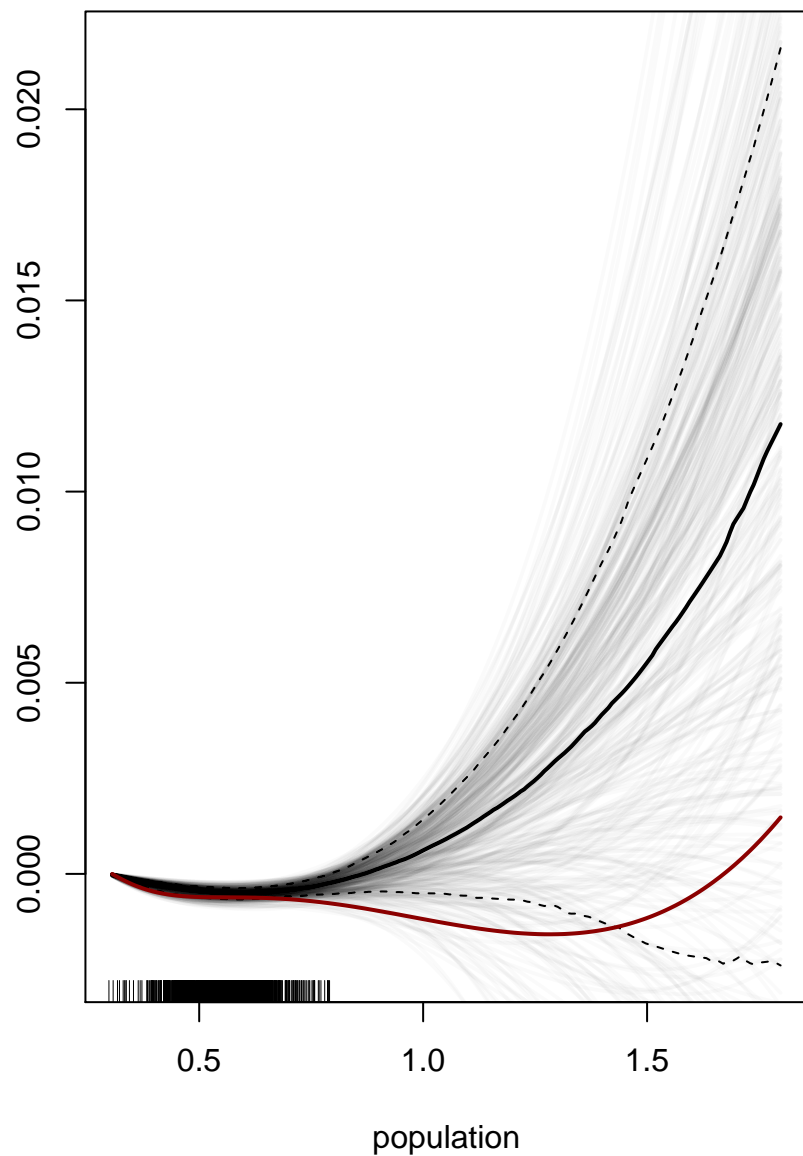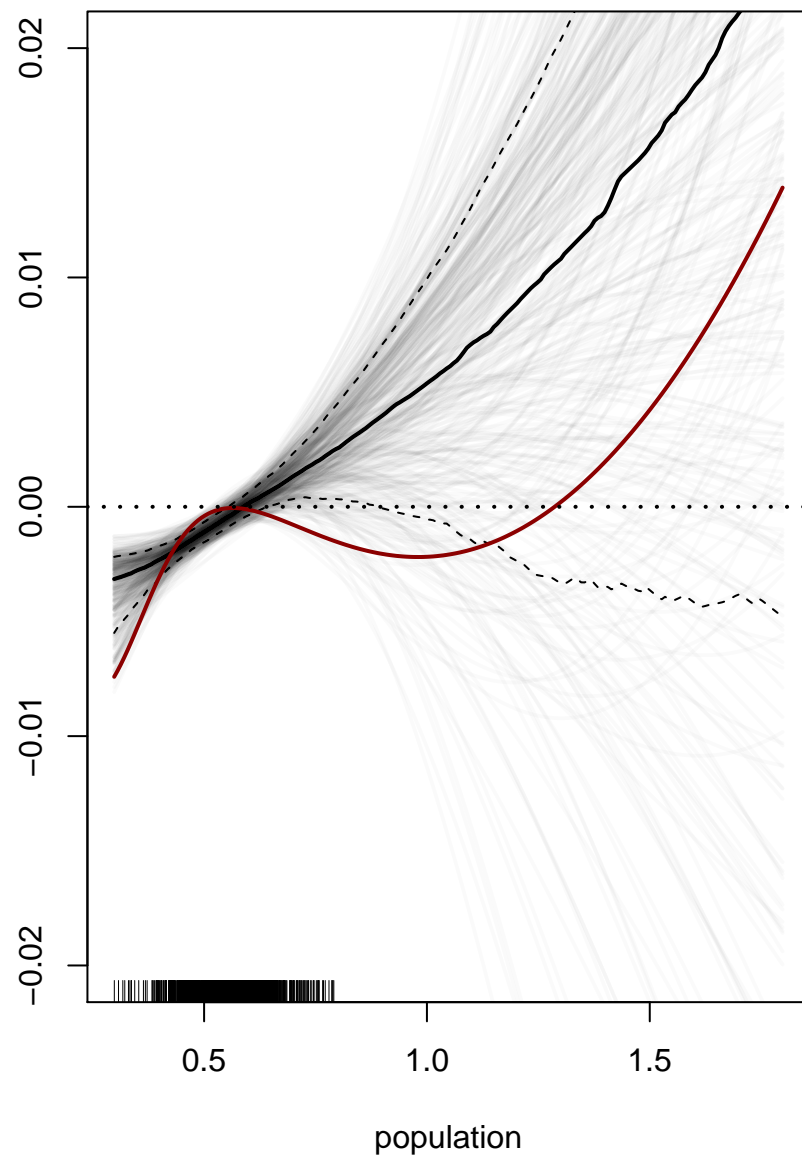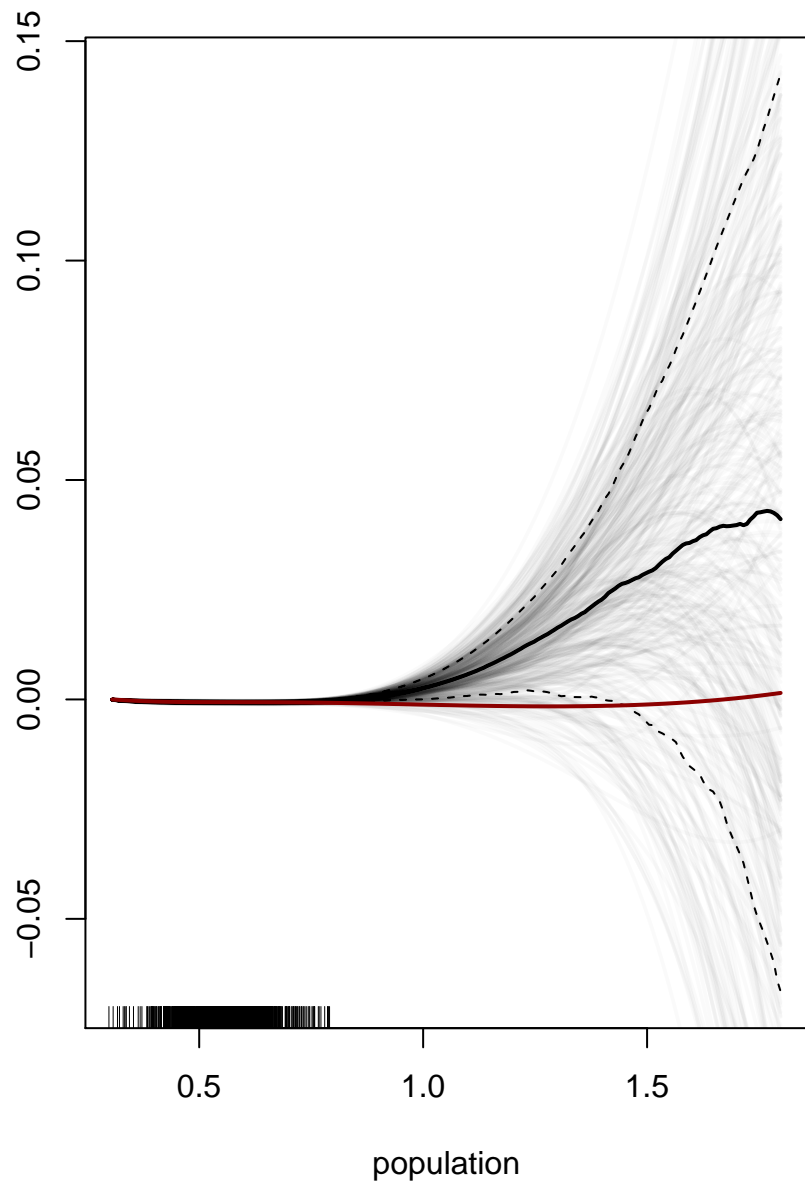**potential function**

derivative of potential function

population

potential function

derivative of potential function

population

population