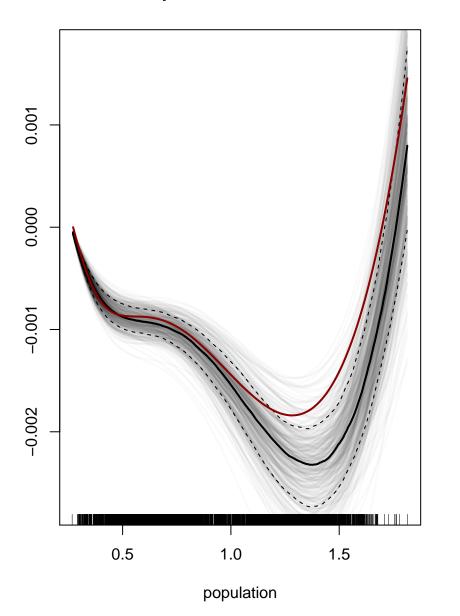
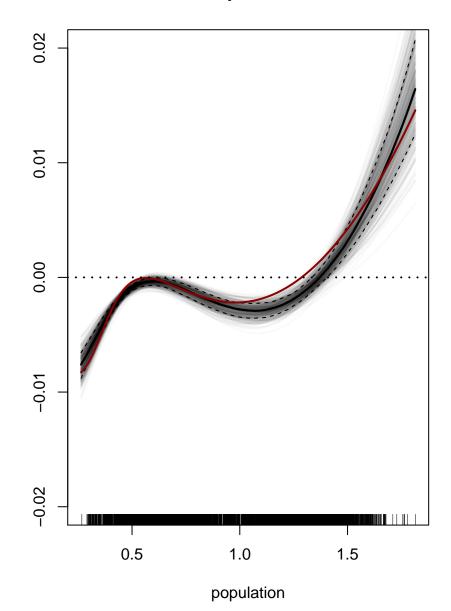
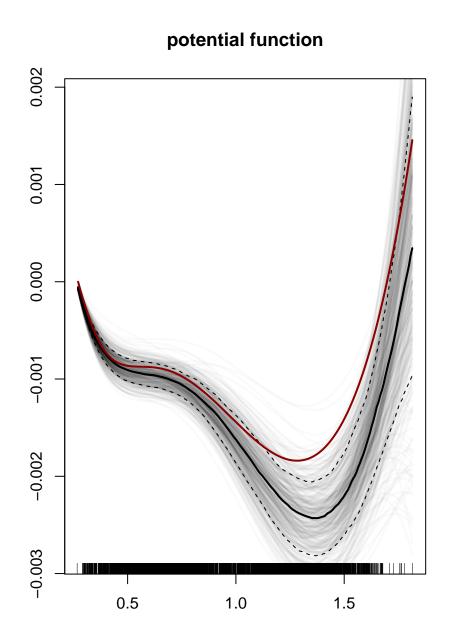


## derivative of potential function







population

## derivative of potential function

