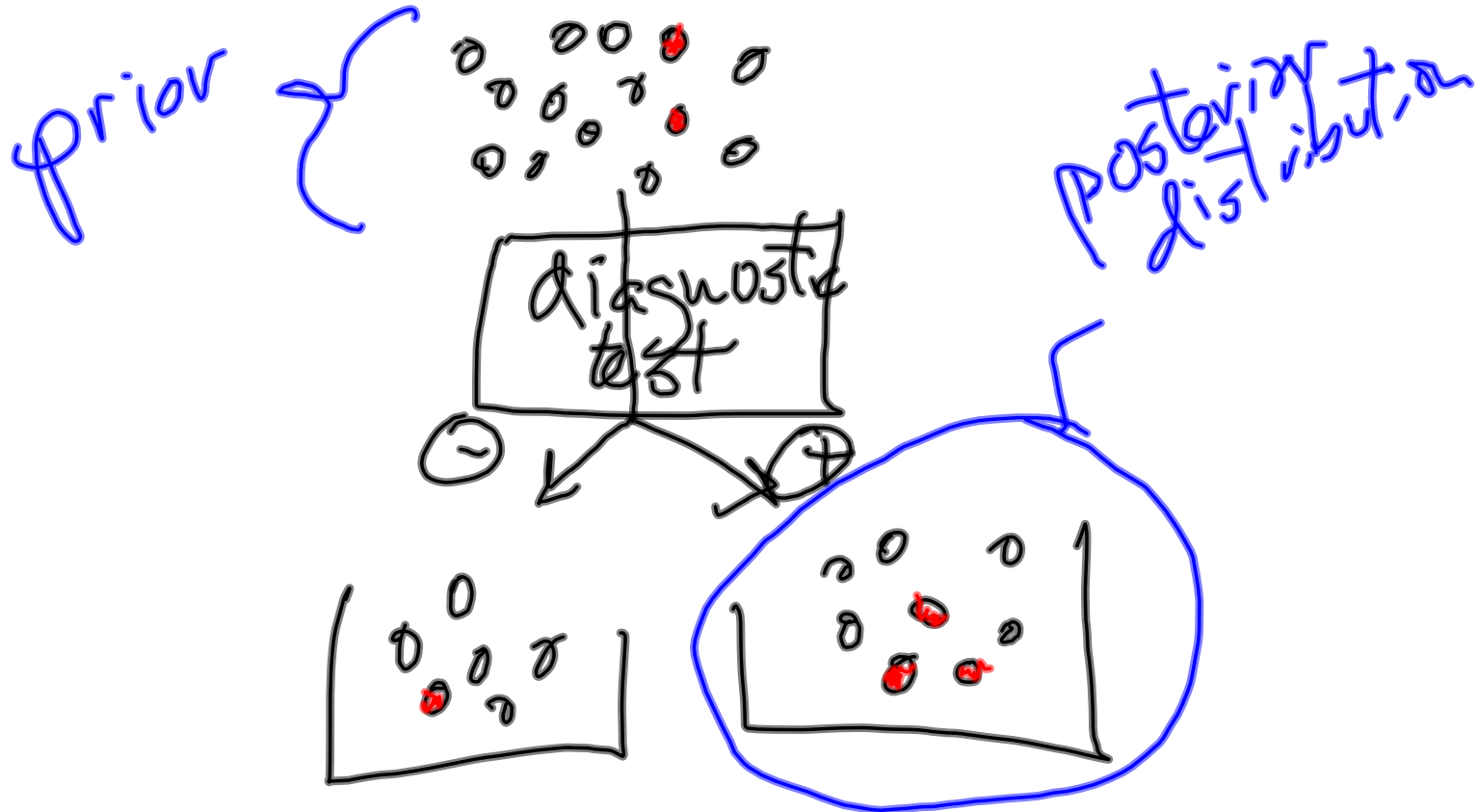


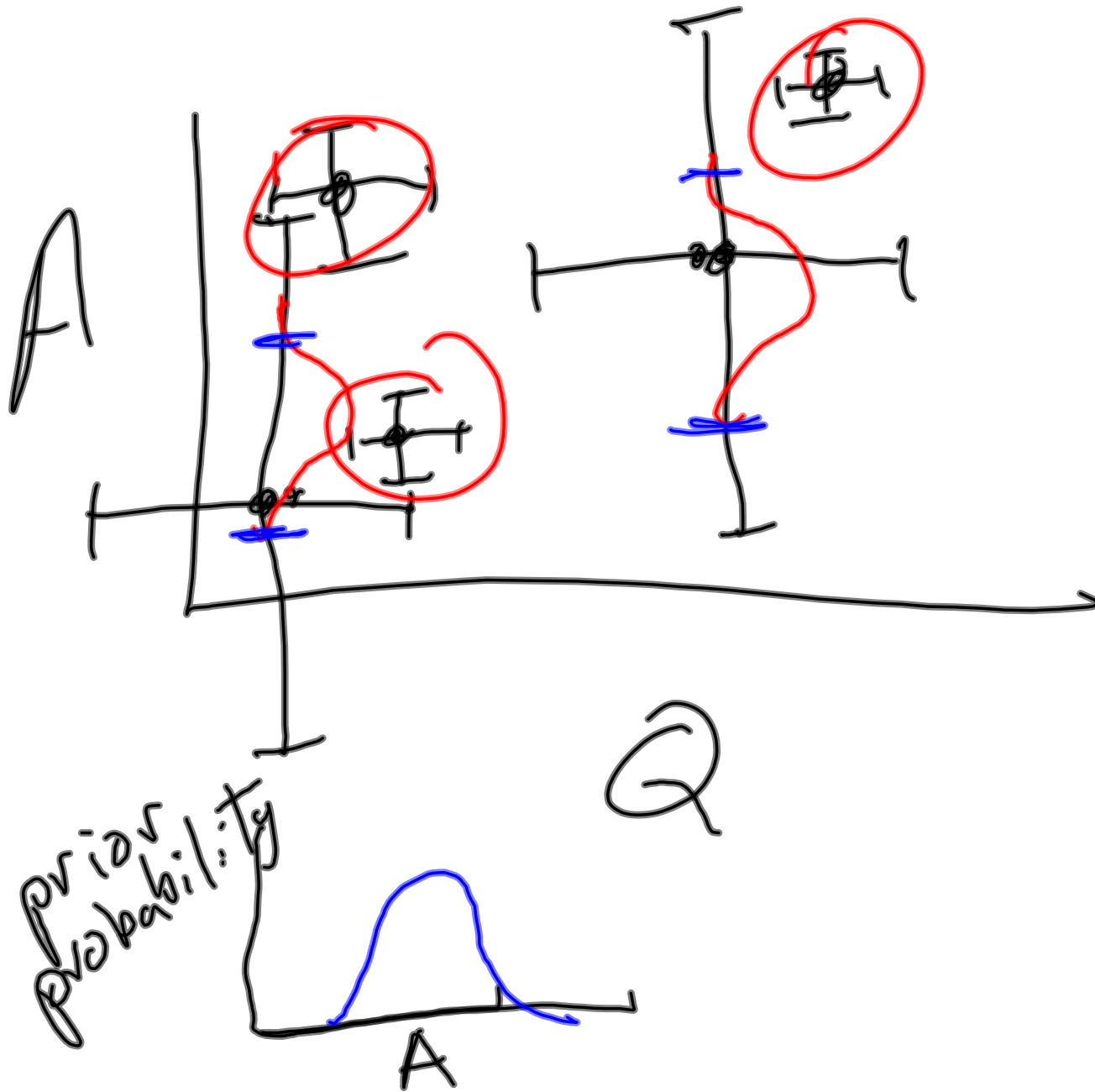
# Flow Chart of Bayes Formula as a Filter



# Application to Wildlife Censusing

Does Forage measure  $Q$   
correlate with elk abundance  
A?

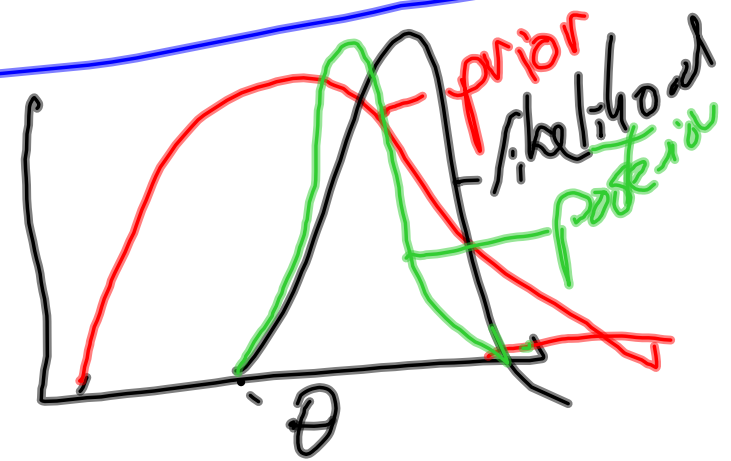
Design we have 5  
sites where we  
measure A and  $Q$



# Bayes Formula

$$P(\theta/x) = \frac{P(\theta) P(x|\theta)}{\int P(\theta) P(x|\theta) d\theta}$$

guarantee  $\int P$  goes from 0 to 1  
 Area under curve = 1  
 Case 1 "strong data"



Case 2 "weak data"

