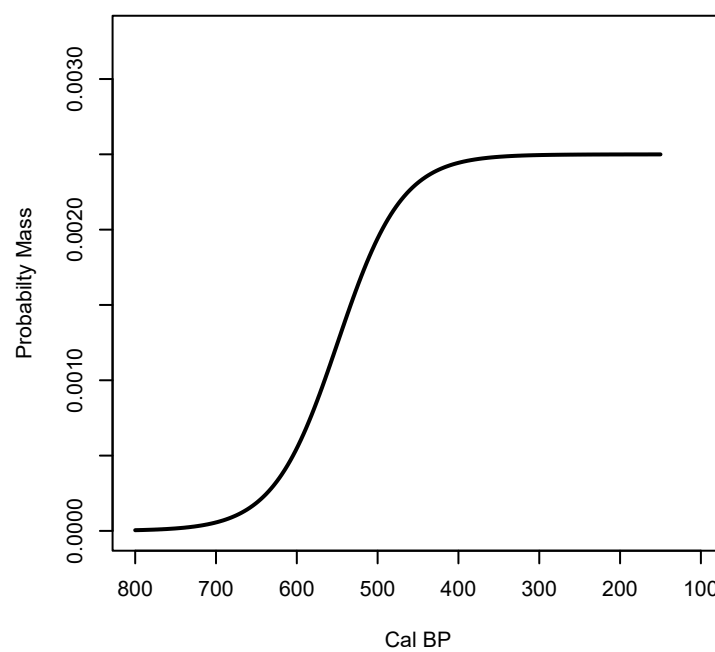


$$K_{t-1} = \exp(\beta_{palm} F_{t-1} + \beta_{soi} C_{t-1})$$

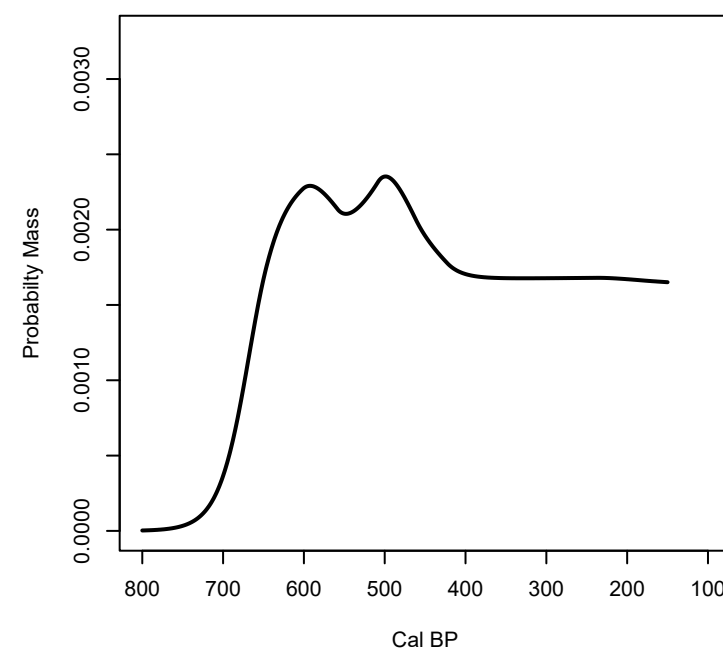
$$N_t = N_{t-1} * e^{r * [1 - (N_{t-1} / K_{t-1})]}$$

$$N_t \rightarrow P_t$$

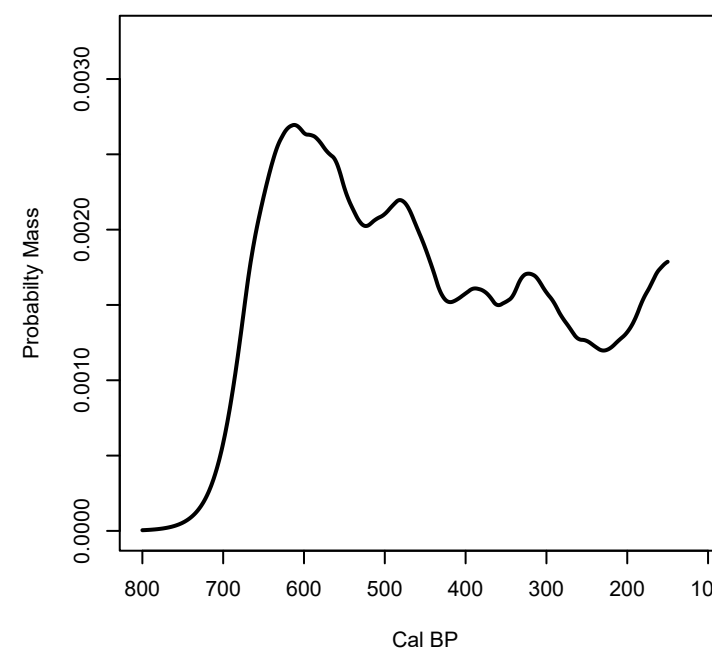
**Model 1**



**Model 2**



**Model 3**



**Model 4**

