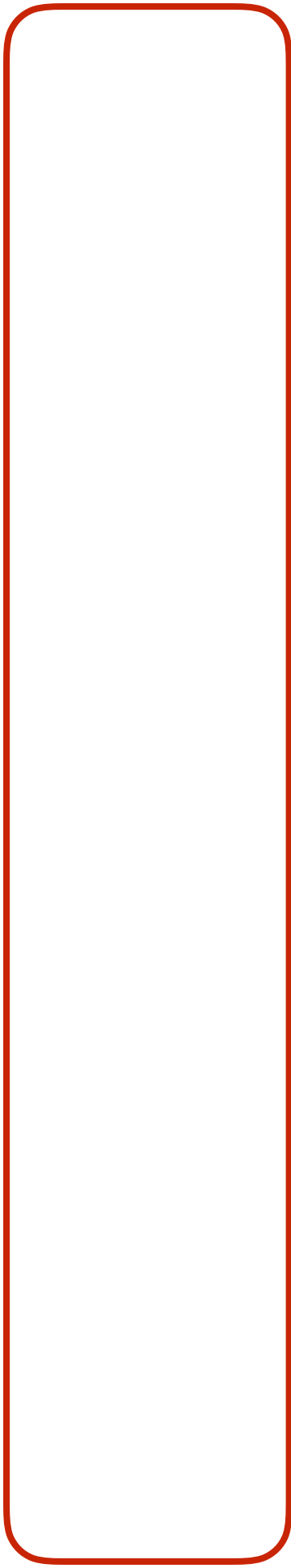




Category	Mating	Frequency	E[AA]	E[AB]	E[BB]
Selfed (s)	AA x AA	$sP$	$sP$		
	AB x AB	$sQ$	$sQ/4$	$sQ/2$	$sQ/4$
	BB x BB	$sR$			$sR$
Outcross (1-s)	AA x AA	$(1-s)P^2$	$(1-s)P^2$		
	AA x AB	$(1-s)2PQ$	$(1-s)PQ$	$(1-s)PQ$	
	AA x BB	$(1-s)2PR$		$(1-s)2PR$	
	AB x AB	$(1-s)Q^2$	$(1-s)Q^2/4$	$(1-s)Q^2/2$	$(1-s)Q^2/4$
	AB x BB	$(1-s)2QR$		$(1-s)QR$	$(1-s)QR$
	BB x BB	$(1-s)R^2$			$(1-s)R^2$



Category	Mating	Frequency	E[AA]	E[AB]	E[BB]
Selfed (s)	AA x AA	sP	sP		
	AB x AB	sQ	sQ/4	sQ/2	sQ/4
	BB x BB	sR			sR
Outcross (1-s)	AA x AA	(1-s)P <sup>2</sup>	(1-s)P <sup>2</sup>		
	AA x AB	(1-s)2PQ	(1-s)PQ	(1-s)PQ	
	AA x BB	(1-s)2PR		(1-s)2PR	
	AB x AB	(1-s)Q <sup>2</sup>	(1-s)Q <sup>2</sup> /4	(1-s)Q <sup>2</sup> /2	(1-s)Q <sup>2</sup> /4
	AB x BB	(1-s)2QR		(1-s)QR	(1-s)QR
	BB x BB	(1-s)R <sup>2</sup>			(1-s)R <sup>2</sup>

$$\begin{aligned}
E[\textcolor{red}{A}A]_{t+1} &= sP_t + s\frac{Q_t}{4} + (1-s)P_t^2 + (1-s)P_tQ_t + (1-s)\frac{Q_t^2}{4} \\
&= \dots \\
&= s\left[P_t + \frac{Q_t}{4}\right] + (1-s)p_t^2
\end{aligned}$$

$$E[\textcolor{red}{A}B]_{t+1} = s\frac{Q_t}{2} + (1-s)2p_tq_t$$

$$E[B\textcolor{red}{B}]_{t+1} = s\left[R_t + \frac{Q_t}{4}\right] + (1-s)q_t^2$$