

Table 3 Estimates of genetic parameters and their proportions for AUDPC† and FDS†† in 9×9 diallel crosses (excluding reciprocals) of F<sub>1</sub> and F<sub>2</sub> generations

Parameter	Estimate				
	F <sub>1</sub>		F <sub>2</sub>		
	AUDPC	FDS	AUDPC	FDS	
$D$	Additive genetic variance	0.17**	0.10**	0.17**	0.09**
$H_1$	Dominance genetic variance	0.60**	0.19**	1.39**	0.41**
$H_2$	Proportion of dominance genetic variance due to + and – effects of genes	0.47**	0.15**	1.26**	0.38**
$h^2$	Net dominance effect (as algebraic sum over all loci in heterozygous phase in all crosses)	0.53**	0.15**	3.70**	0.46**
$F$	Mean covariance of additive and dominance effect of genes	0.01	0.02	0.24	0.01**
$E$	Expected environmental variance	0.01	0.01	0.02	0.01**
Proportion					
$H_2^2/D^2$	Average degree of dominance	1.87	1.40	1.43	1.06
$H_2^2/4H_1$	Proportion of genes with + and – effects in parents	0.19	0.20	0.23	0.23
$h^2/H_2$	Number of group(s) of gene which control the trait and exhibit dominance	1.12	0.97	2.93	1.21
$K_D^2/K_R$	Proportion of dominant-recessive genes in parents	1.04	1.12	1.67	1.82
$h_{ns}^2$	Heritability (narrow sense)	54.45	61.31	40.09	54.55

† Area Under Disease Progress Curve and †† Final Disease Severity, \*\* Significant at P<0.01