Table 1. Expected contribution of genetic effects to phenotype of the lines used in regression analysis to estimate additive direct (A), additive maternal (Am), dominance individual (D) and dominance maternal (M) effects of each line (line code included after underscore).

Line	A -C	A -G	A –L	A -W	Am -C	Am -G	Am -L	Am -W	D -CG	D -CL	D -CW	D -GL	D -GW	D -WL	M -CG	M -CL	M -CW	M -GL	M -GW	M -WL
CG	0.5	0.5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CxCG	0.75	0.25	0	0	0.5	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0	0
GxCG	0.25	0.75	0	0	0.5	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0	0
LxCG	0.25	0.25	0.5	0	0.5	0.5	0	0	0	0.5	0	0.5	0	0	1	0	0	0	0	0
WxCG	0.25	0.25	0	0.5	0.5	0.5	0	0	0	0	0.5	0	0.5	0	1	0	0	0	0	0
CL	0.5	0	0.5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
CxCL	0.75	0	0.25	0	0.5	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0
GxCL	0.25	0.5	0.25	0	0.5	0	0.5	0	0.5	0	0	0.5	0	0	0	1	0	0	0	0
LxCL	0.25	0	0.75	0	0.5	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0
WxCL	0.25	0	0.25	0.5	0.5	0	0.5	0	0	0	0.5	0	0	0.5	0	1	0	0	0	0
CW	0.5	0	0	0.5	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
CxCW	0.75	0	0	0.25	0.5	0	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0
GxCW	0.25	0.5	0	0.25	0.5	0	0	0.5	0.5	0	0.5	0	0	0	0	0	1	0	0	0
LxCW	0.25	0	0.5	0.25	0.5	0	0	0.5	0	0.5	0	0	0	0.5	0	0	1	0	0	0
WxCW	0.25	0	0	0.75	0.5	0	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0
GC	0.5	0.5	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CxGC	0.75	0.25	0	0	0.5	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0	0
GxGC	0.25	0.75	0	0	0.5	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0	0
LxGC	0.25	0.25	0.5	0	0.5	0.5	0	0	0	0.5	0	0.5	0	0	1	0	0	0	0	0
WxGC	0.25	0.25	0	0.5	0.5	0.5	0	0	0	0	0.5	0	0.5	0	1	0	0	0	0	0
GL	0	0.5	0.5	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
CxGL	0.5	0.25	0.25	0	0	0.5	0.5	0	0.5	0.5	0	0	0	0	0	0	0	1	0	0
GxGL	0	0.75	0.25	0	0	0.5	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0	0
LxGL	0	0.25	0.75	0	0	0.5	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0	0
WxGL	0	0.25	0.25	0.5	0	0.5	0.5	0	0	0	0	0	0.5	0.5	0	0	0	1	0	0
GW	0	0.5	0	0.5	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
CxGW	0.5	0.25	0	0.25	0	0.5	0	0.5	0.5	0	0.5	0	0	0	0	0	0	0	1	0
GxGW	0	0.75	0	0.25	0	0.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0
LxGW	0	0.25	0.5	0.25	0	0.5	0	0.5	0	0	0	0.5	0	0.5	0	0	0	0	1	0
WxGW	0	0.25	0	0.75	0	0.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0
C	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LC	0.5	0	0.5	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
WC	0.5	0	0	0.5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
G	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
CxLC	0.75	0	0.25	0	0.5	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0
LxLC	0.25	0	0.75	0	0.5	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0	0
WxLC	0.25	0	0.25	0.5	0.5	0	0.5	0	0	0	0.5	0	0	0.5	0	1	0	0	0	0
GxLC	0.25	0.5	0.25	0	0.5	0	0.5	0	0.5	0	0	0.5	0	0	0	1	0	0	0	0
LW	0	0	0.5	0.5	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
CxLW	0.5	0	0.25	0.25	0	0	0.5	0.5	0	0.5	0.5	0	0	0	0	0	0	0	0	1
GxLW	0	0.5	0.25	0.25	0	0	0.5	0.5	0	0	0	0.5	0.5	0	0	0	0	0	0	1
LxLW	0	0	0.75	0.25	0	0	0.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	1
WxLW	0	0	0.25	0.75	0	0	0.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	1
CxWC	0.75	0	0	0.25	0.5	0	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0
GxWC	0.25	0.5	0	0.25	0.5	0	0	0.5	0.5	0	0	0	0.5	0	0	0	1	0	0	0
LxWC	0.25	0	0.5	0.25	0.5	0	0	0.5	0	0.5	0	0	0	0.5	0	0	1	0	0	0
WxWC	0.25	0	0	0.75	0.5	0	0	0.5	0	0	0.5	0	0	0	0	0	1	0	0	0
WG	0	0.5	0	0.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
CxWG	0.5	0.25	0	0.25	0	0.5	0	0.5	0.5	0	0.5	0	0	0	0	0	0	0	1	0
LxWG	0	0.25	0.5	0.25	0	0.5	0	0.5	0	0	0	0.5	0	0.5	0	0	0	0	1	0
WxWG	0	0.25	0	0.75	0	0.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0
GxWG	0	0.75	0	0.25	0	0.5	0	0.5	0	0	0	0	0.5	0	0	0	0	0	1	0
WL	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
CxWL	0.5	0	0.25	0.25	0	0	0.5	0.5	0	0.5	0.5	0	0	0	0	0	0	0	0	1
GxWL	0	0.5	0.25	0.25	0	0	0.5	0.5	0	0	0	0.5	0.5	0	0	0	0	0	0	1
LxWL	0	0	0.75	0.25	0	0	0.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	1
WxWL	0	0	0.25	0.75	0	0	0.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	1

Note on basic symbols: G, and L, and W - lines selected for increasing body weight at 42 days; tail length and litter size, respectively; C- control line; x – crossing.