Table S4 Variance parameters for the overall and maturity-group-specific growth models of body mass.

Term	Var	SE	Var/SE	X_1^2	P
A overall					
spl(*Time*)	7.0E-05	1.7E-04	0.4	0.2	0.643
spl(*Time*):*Sediment*	1.1E-04	1.1E-04	1.0	7.3	0.007
spl(*Time*):*Cross*:*Maturity*	5.3E-05	1.9E-05	2.7	52.2	<0.001
dev(*Time*):*Maturity*	1.5E-04	1.1E-04	1.4	19.4	<0.001
Sediment:*Salinity*:*Cross*:*Maturity*:dev(*Time*)	3.3E-05	1.1E-05	3.0	18.3	<0.001
[a]Tank	2.9E-09	1.4E-10	20.8	NA	NA
[a]Tank:*Time*	5.2E-11	2.5E-12	20.8	NA	NA
Tank:dev(*Time*)	7.4E-05	2.7E-05	2.7	94.3	<0.001
WW-females intercept	7.4E-02	1.2E-02	6.0		
WW-females cov(intercept, slope)	1.7E-05	3.9E-04	0.0		
WW-females:*Time*	1.4E-04	2.5E-05	5.5		
WW-males intercept	9.7E-02	1.6E-02	6.0		
WW-males cov(intercept, slope)	3.8E-04	4.7E-04	0.8		
WW-males:*Time*	1.6E-04	2.8E-05	5.6		
WW- immature intercept	8.5E-02	2.2E-02	4.0		
WW-immature cov(intercept, slope)	1.5E-04	8.3E-04	0.2		
WW- immature:*Time*	2.4E-04	6.4E-05	3.8		
BC-females intercept	2.1E-01	4.5E-02	4.7		
BC-females cov(intercept, slope)	2.7E-04	9.6E-04	0.3		
BC-females:*Time*	1.8E-04	4.0E-05	4.4		
BC-males intercept	1.1E-01	2.4E-02	4.6		
BC-males cov(intercept, slope)	6.7E-04	8.2E-04	0.8		
BC-males:*Time*	2.4E-04	5.4E-05	4.4		
BC- immature intercept	8.6E-02	1.3E-02	6.7		
BC-immature cov(intercept, slope)	-2.1E-04	5.2E-04	-0.4		
BC- immature:*Time*	2.7E-04	4.1E-05	6.4		
F1-females intercept	1.8E-01	4.0E-02	4.4		
F1-females cov(intercept, slope)	2.5E-03	1.0E-03	2.4		
F1-females:*Time*	1.9E-04	4.6E-05	4.1		
F1-males intercept	1.5E-01	2.8E-02	5.2		
F1-males cov(intercept, slope)	1.8E-03	8.1E-04	2.3		
F1-males:*Time*	2.1E-04	4.3E-05	4.9		
F1- immature intercept	1.4E-01	2.0E-02	7.0		
F1-immature cov(intercept, slope)	2.1E-03	6.6E-04	3.2		
F1- immature:*Time*	2.6E-04	3.9E-05	6.7		

Term	Var	SE	Var/SE	X_1^2	P
F2-females intercept	1.2E-01	3.0E-02	3.9		
F2-females cov(intercept, slope)	1.1E-03	9.3E-04	1.2		
F2-females:*Time*	2.0E-04	5.4E-05	3.7		
F2-males intercept	1.6E-01	3.3E-02	5.0		
F2-males cov(intercept, slope)	-1.1E-03	8.6E-04	-1.2		
F2-males:*Time*	2.0E-04	4.3E-05	4.7		
F2- immature intercept	8.2E-02	1.1E-02	7.2		
F2-immature cov(intercept, slope)	1.2E-04	4.1E-04	0.3		
F2- immature:*Time*	2.0E-04	3.0E-05	6.8		
DD-females intercept	4.7E-02	1.4E-02	3.4		
DD-females cov(intercept, slope)	1.0E-03	7.9E-04	1.3		
DD-females:*Time*	2.6E-04	8.2E-05	3.2		
DD-males intercept	9.6E-02	1.6E-02	6.1		
DD-males cov(intercept, slope)	1.7E-03	7.0E-04	2.5		
DD-males:*Time*	3.4E-04	5.8E-05	5.9		
DD- immature intercept	6.7E-02	1.0E-02	6.4		
DD-immature cov(intercept, slope)	1.7E-03	6.1E-04	2.7		
DD- immature:*Time*	4.0E-04	6.4E-05	6.3		
WW-females:spl(*Time*)	2.4E-04	4.5E-05	5.3		
WW-males:spl(*Time*)	1.6E-04	3.3E-05	4.8		
WW-immature:spl(*Time*)	2.0E-04	5.8E-05	3.4		
BC-females:spl(*Time*)	2.1E-04	4.9E-05	4.4		
BC-males:spl(*Time*)	2.1E-04	5.6E-05	3.8		
BC-immature:spl(*Time*)	2.6E-04	4.3E-05	6.1		
F1-females:spl(*Time*)	4.3E-04	9.8E-05	4.4		
F1-males:spl(*Time*)	1.6E-04	4.0E-05	4.0		
F1-immature:spl(*Time*)	2.1E-04	3.4E-05	6.1		
F2-females:spl(*Time*)	3.9E-04	1.1E-04	3.7		
F2-males:spl(*Time*)	2.1E-04	5.1E-05	4.1		
F2-immature):IND:spl(*Time*)	2.3E-04	3.8E-05	6.2		
DD-females:spl(*Time*)	7.3E-04	2.0E-04	3.7		
DD-males:spl(*Time*)	3.0E-04	5.4E-05	5.6		
DD-immature:spl(*Time*)	2.3E-04	4.0E-05	5.7		
Residuals	5.1E-04	2.5E-05	20.8		
B immature					
spl(*Time*)	4.0E-04	3.8E-04	1.1	2.9	0.089
spl(*Time*):*Sediment*	7.4E-05	8.6E-05	0.9	4.2	0.040
spl(*Time*):*Sediment*:*Salinity*:*Cross*	2.4E-05	1.3E-05	1.9	7.3	0.007

Term	Var	SE	Var/SE	X_1^2	P
Sediment:*Cross*:dev(*Time*)	1.9E-05	1.5E-05	1.3	3.8	0.051
[a]Tank	NA	NA	NA	NA	NA
[a]Tank:*Time*	NA	NA	NA	NA	NA
Tank:dev(*Time*)	8.2E-05	3.4E-05	2.4	58.4	<0.001
WW intercept	8.2E-02	2.1E-02	4.0		
WW cov(intercept, slope)	2.1E-04	8.1E-04	0.3		
WW:*Time*	2.4E-04	6.3E-05	3.8		
BC intercept	8.6E-02	1.3E-02	6.7		
BC cov(intercept, slope)	-2.8E-04	5.2E-04	-0.5		
BC:*Time*	2.8E-04	4.3E-05	6.5		
F1 intercept	1.4E-01	2.0E-02	7.0		
F1 cov(intercept, slope)	2.1E-03	6.7E-04	3.2		
F1:*Time*	2.7E-04	4.0E-05	6.7		
F2 intercept	8.1E-02	1.1E-02	7.2		
F2 cov(intercept, slope)	1.4E-04	4.1E-04	0.3		
F2:*Time*	2.0E-04	2.9E-05	6.9		
DD intercept	7.0E-02	1.1E-02	6.4		
DD cov(intercept, slope)	1.8E-03	6.2E-04	2.9		
DD:*Time*	4.1E-04	6.4E-05	6.3		
WWspl(*Time*)	2.1E-04	6.0E-05	3.5		
BC:spl(*Time*)	3.0E-04	4.7E-05	6.3		
F1:spl(*Time*)	2.4E-04	3.7E-05	6.4		
F2:spl(*Time*)	2.8E-04	4.3E-05	6.5		
DD:spl(*Time*)	2.6E-04	4.4E-05	5.9		
Residuals	4.1E-04	3.2E-05	12.9		
C females					
spl(*Time*):*Sediment*	2.6E-04	1.9E-04	1.4	12.9	<0.001
spl(*Time*):*Cross*	5.0E-05	3.4E-05	1.5	9.4	0.002
[a]Tank	NA	NA	NA	NA	NA
[a]Tank:*Time*	NA	NA	NA	NA	NA
dev(*Time*):Tank	7.4E-05	3.9E-05	1.9	12.4	<0.001
WW intercept	7.5E-02	1.2E-02	6.0		
WW cov(intercept, slope)	1.9E-05	3.9E-04	0.0		
WW:*Time*	1.4E-04	2.5E-05	5.4		
BC intercept	2.1E-01	4.5E-02	4.7		
BC cov(intercept, slope)	2.9E-04	9.5E-04	0.3		
BC:*Time*	1.8E-04	4.0E-05	4.4		
F1 intercept	1.7E-01	3.9E-02	4.4		

Term	Var	SE	Var/SE	X_1^2	P
F1 cov(intercept, slope)	2.5E-03	1.0E-03	2.5		
F1:*Time*	1.8E-04	4.5E-05	4.1		
F2 intercept	1.2E-01	3.0E-02	3.9		
F2 cov(intercept, slope)	1.1E-03	9.4E-04	1.2		
F2:*Time*	2.1E-04	5.6E-05	3.7		
DD intercept	4.8E-02	1.4E-02	3.4		
DD cov(intercept, slope)	1.1E-03	8.0E-04	1.4		
DD:*Time*	2.6E-04	8.2E-05	3.2		
WWspl(*Time*)	2.1E-04	4.4E-05	4.9		
BC:spl(*Time*)	2.0E-04	4.8E-05	4.1		
F1:spl(*Time*)	3.9E-04	9.3E-05	4.2		
F2:spl(*Time*)	3.4E-04	1.0E-04	3.4		
DD:spl(*Time*)	7.4E-04	2.1E-04	3.6		
Residuals	6.1E-04	5.9E-05	10.3		
D males					
spl(*Time*):*Cross*	1.5E-04	7.0E-05	2.1	89.3	<0.001
Sediment:dev(*Time*)	1.5E-04	1.2E-04	1.3	12.4	<0.001
[a]Tank	NA	NA	NA	NA	NA
Tank:*Time*	1.3E-06	4.3E-06	0.3	0.1	0.756
Tank:spl(*Time*)	3.8E-05	2.0E-05	1.9	20.9	<0.001
WW intercept	9.9E-02	1.6E-02	6.0		
WW cov(intercept, slope)	3.8E-04	4.8E-04	0.8		
WW:*Time*	1.6E-04	2.8E-05	5.6		
BC intercept	1.1E-01	2.4E-02	4.6		
BC cov(intercept, slope)	5.8E-04	8.1E-04	0.7		
BC:*Time*	2.4E-04	5.4E-05	4.3		
F1 intercept	1.4E-01	2.8E-02	5.2		
F1 cov(intercept, slope)	1.8E-03	8.4E-04	2.1		
F1:*Time*	2.3E-04	4.7E-05	4.9		
F2 intercept	1.6E-01	3.3E-02	5.0		
F2 cov(intercept, slope)	-1.1E-03	8.6E-04	-1.2		
F2:*Time*	2.1E-04	4.4E-05	4.7		
DD intercept	9.7E-02	1.6E-02	6.1		
DD cov(intercept, slope)	1.7E-03	7.0E-04	2.4		
DD:*Time*	3.3E-04	5.7E-05	5.9		
WWspl(*Time*)	1.4E-04	3.3E-05	4.4		
BC:spl(*Time*)	1.8E-04	5.1E-05	3.4		
F1:spl(*Time*)	1.4E-04	3.9E-05	3.7		

Term	Var	SE	Var/SE	$\mathbf{X}_1^2$	P
F2:spl(*Time*)	1.6E-04	4.6E-05	3.6		
DD:spl(*Time*)	2.8E-04	5.4E-05	5.2		
Residuals	6.0E-04	4.7E-05	12.7		

[a]Variance was constrained to be positive and converged to zero.

Comments: Parameters are given for the overall model (**A**), and for maturity groups of immature individuals (**B**), females (**C**), and males (**D**). A colon between terms indicates the formation of the interaction. Some terms contain splines (spl(*Time*)) and deviations (dev(*Time*)) from linear trajectories. Among-individual (co)variances are given for each cross. Crosses are abbreviated with WW, wild; F1, first-generation hybrid; F2, second-generation hybrid; and DD, domesticated Atlantic salmon. The covariance between among-individual variances for intercepts and slopes (interaction of individual with *Time*) is abbreviated by 'cov'. For all among-group variance parameters, the results from REML-likelihood ratio tests (LRT) are given as test-statistic ($\boldsymbol{\chi^2}$, all with 1 degree of freedom) and probability of being different from zero (P). LRT results for among-individual (co)variance terms are reported in supplementary Table S3.