

Symbol	<i>E. encrasicolus</i>	<i>E. ringens</i>	Primary parameters	Unit	Definition
$L_1$	0.28	-		cm	Hatch length
$L_2$	0.35	-		cm	Length at first-feeding
$E_H^b$	-	0.3889		J	Maturity threshold at birth
$E_H^p$	-	42160		J	Maturity threshold at puberty
$T_A$	9800	10000		K	Arrhenius temperature
$T_L$	279	279		K	Lower temperature boundary
$T_H$	294(297)	294(297)		K	Upper temperature boundary
$T_{AL}$	20000	20000		K	Arrhenius temperature for lower boundary
$T_{AH}$	95000(570000)	95000(570000)		K	Arrhenius temperature for upper boundary
$\kappa_x$	0.71	0.8		-	Fraction of food energy fixed in reserve
$\{\dot{p}_{Am}\}$	325	$\{\dot{p}_{Am}\} / \kappa_x = 66(389)$		$J.cm^{-2}.d^{-1}$	Maximum surface specific ingestion rate (before and after metamorphosis for <i>E. ringens</i> )
$\{\dot{p}_{Am}\}$	$\{\dot{p}_{Xm}\} \kappa_x = 231$	53(311)		$J.cm^{-2}.d^{-1}$	Surface-area-specific maximum assimilation rate before and after metamorphosis
$[E_m]$	2700	$\{\dot{p}_{Am}\} / \dot{v} = 2061$		$J.cm^{-3}$	Maximum reserve density
$[E_G]$	4000	5283		$J.cm^{-3}$	Volume-specific costs of structure
$[\dot{p}_M]$	48	50.35		$J.cm^{-3}.d^{-1}$	Specific Volume-linked somatic maintenance rate
$\kappa$	0.7	0.5512		-	Fraction of mobilized reserve allocated to soma
$k_J$	-	0.002		$d^{-1}$	Maturity maintenance rate coefficient
$\dot{v}$	-	0.02572/0.15096		$cm.d^{-1}$	Energy conductance before and after metamorphosis
$L_b$	-	0.0445		cm	Volumetric length at birth (estimated at $f = 1$ )
$L_j$	-	0.2612		cm	Volumetric length at metamorphosis (estimated at $f = 1$ )
$E_H^j$	-	83.22		J	Maturity threshold at metamorphosis
$\delta_M$	0.154	0.154		-	Shape coefficient for larvae
$\delta_{Mj}$	0.169	0.1889		-	Shape coefficient after metamorphosis for total length