

Study Reference	Fecundity Parameters			Egg Dynamics		Larval dynamics		Intermediate Host
	Stressors	Nesting habitat	Water quality requirements	Egg habitat	Duration	Duration	Prey	
Species 1 – <i>Elliptio complanata</i> (Eastern Elliptio)								
Harbold et al. 2014; LaRouche 2014; Lellis et al. 2013; Watters 1996	Migratory blockages for host fish		Freshwater					American eel (<i>Anguilla rostrata</i>), Brook trout (<i>Salvelinus fontinalis</i>), Lake trout (<i>S. namaycush</i>), Slimy sculpin (<i>Cottus cognatus</i>), and Mottled sculpin (<i>C. bairdii</i>)
van Snik Gray et al. 1999			Water temperature ~15°C			Number of juvenile mussels recovered from hosts varied by species, and ranged from 2-35, with timing of recovery from 16-30 days post-infestation		Laboratory only: white sucker (<i>Catostomus commersoni</i>), rock bass (<i>Ambloplites rupestris</i>), and pumpkinseed (<i>Lepomis gibbosus</i>); yellow perch (<i>Perca flavescens</i>) died during infection, but glochidia remained

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								attached
Kat 1982		Clay, mud, sand, gravel						
Strayer and Malcolm 2012			Recruitment failure strongly associated with high interstitial concentrations of un-ionized ammonia (.02 µg N/L)					
Bogan and Proch 1997, Watters 1994								Banded killifish (<i>Fundulus diphanus</i>), green sunfish (<i>Lepomis cyanellus</i>), orangespotted sunfish (<i>L. humilis</i>), largemouth bass (<i>Micropterus salmoides</i>), white crappie (<i>Pomoxis annularis</i>), yellow perch (<i>Perca flavescens</i>)
Species 2 – <i>Pyganodon cataracta</i> (Eastern floater)								
Ashton 2009			pH, ~6.8-7.4;					Confirmed

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			nitrite and TN <5mg/L; ammonia ~0.04-0.09 mg/L; MWW, 4-6m; % agriculture					hosts: Rock bass (<i>Ambloplites rupestris</i>), White sucker (<i>Catostomus commersoni</i>), Common carp (<i>Cyprinus carpio</i>), Pumpkinseed (<i>Lepomis gibbosus</i>), Bluegill (<i>L. macrochirus</i>), Yellow perch (<i>Perca flavescens</i>)
Bogan and Proch 1997, Watters 1994								Common carp (<i>Cyprinus carpio</i>), pumpkinseed (<i>Lepomis gibbosus</i>), threespine stickleback (<i>Gasterosteus aculeatus</i>), white sucker (<i>Catostomus commersoni</i>)
Taxon 3 - "Selected anodontine species": Dwarf Wedgemussel (<i>Alasmidonta heterodon</i>), Green Floater (<i>Lasmigona subviridis</i>), Brook Floater (<i>Alasmidonta varicosa</i>)								

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Michaelson and Neves 1995 (dwarf wedgemussel)		Gravel, sand, or mud	Water temperature (°C) (tessellated darter, 19.0-21.5; Johnny darter, 21.0-22.0; mottled sculpin, 15.0-20.0)			Glochidial metamorphosis and peak encystment (tessellated darter, 12-26 days [16d]; Johnny darter, 10-22 days [18d]; mottled sculpin, 16-38 days [30d])		Tessellated darter (<i>Etheostoma olmsteadii</i>), Johnny darter (<i>E. nigrum</i>), mottled sculpin (<i>Cottus bairdi</i>)
Strayer and Ralley 1993 (dwarf wedgemussel, brook floater)		Fine to medium sands (0.1-1.0 mm)						
Species 4 – <i>Micropterus dolomieu</i> (Smallmouth bass)								
(Brown et al. 2009; Edwards et al. 1983; Scott and Crossman 1973)		Firm sand, mud, gravel < 2.5 cm		Clean substrate	4-10 days			
(Jenkins and Burkhead 1994)							Micro-crustaceans, insects, small fishes	
(Brown et al. 2009; Scott and Crossman 1973)			~15° C (onset of spawning); DO > 7mg l ⁻¹ ;					
(Blazer et al. 2012)	Endocrine disruptors							
Species 5 – <i>Micropterus salmoides</i> (Largemouth bass)								
(Sackett et al. 2013)	Hg transfer;							

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(Jenkins and Burkhead 1994)			Commences at 12°-15.5° C;					
(Rintamaki 1986; Stuber et al. 1982)		Gravel (optimal); vegetation, roots, sand, mud also suitable	pH between 5-10	Clean gravel with low siltation	2-7 days		Micro-crustaceans, insects,	
Species 6 – <i>Esox niger</i> (Chain pickerel)								
(Coffie 1998; Jenkins and Burkhead 1994)		Spawning in vegetation (no nests)	2 – 22° C, peak spawning ~ 12°C				Zooplankton, then invertebrates	
(Coffie 1998; Underhill 1949)				Vegetation (adhesive)	6-12 days			
Species 7 - <i>Morone americana</i> (White perch)								
(Able and Fahay 1998; Morgan and Rasin 1982; Setzler-Hamilton 1991)		Fine gravel, sand (no nesting)	12 – 20° C; salinity 0-1.5 ppt; pH 6.5-8.5; DO > 5 mgL ⁻¹	Water column over fine gravel or sand	2-6 days	~ 6 weeks	Rotifers, juvenile copepods;	
(Monosson et al. 1994; Morgan and Prince 1977)	Chlorine toxicity; PCB, TCB							
Species 8 – <i>Anchoa mitchilli</i> (Bay anchovy)								
(Able and Fahay 1998; Morton 1989; Olney 1983)		Pelagic (no nesting)	Prefer salinities > 8 ppt; >17° C;	Pelagic, near surface	24h			
(Morgan and Prince 1977)	Chlorine toxicity							

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(Delancey 1989; Fives et al. 1986; Houde and Lovdal 1984)						~45 days	Copepods, tintinnids, bivalve larvae	
Species 9 – <i>Leiostomus xanthurus</i> (Spot)								
(Flores-Coto and Warlen 1993; Hildebrand and Cable 1930; Homer and Mihursky 1991)	Copper (reduced hatching)	Continental shelf spawners; no nesting	~ 19°C for hatching;	Deep pelagic water	1-4 days	Mean 82 days	Copepods and ostracods	
Species 10 – <i>Macoma balthica</i> (Baltic clam)								
(Lammens 1967; Pekkarinen 1986; Van Colen et al. 2012)	CO2	None (broadcast spawners)	> 10° C;	Pelagic	~20h	1-6 months		
Species 11 – <i>Menidia menidia</i> (Atlantic silverside)								
(Able and Fahay 1998; Balouskus and Targett 2012; Fay et al. 1983; Gilmurray and Daborn 1981; Martin and Drewry 1978; Middaugh 1981)		Benthic eggs, not in nests but within intertidal marshes	>13° C;	<i>Spartina alterniflora</i> marsh surface; attached by filaments	~8 days (temperature dependent)	27-35 days	<i>Eurytemora herdmani</i>	
(Morgan and Prince 1977)	Chlorine							
Species 12 – <i>Paralichthys dentatus</i> (Summer flounder)								
(Able and Fahay 1998; Grover 1998; Madenjian et al. 2016; Martinez and Bolker 2003; Packer	Possible PCB	No nesting; pelagic eggs	9.1°-22.9° C;	Open ocean areas over continental shelf	2-9 days	18-31 days	Tintinnids, copepod nauplii, calanoid copepods,	

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et al. 1999; Packer and Hoff 1999; Smith 1973)							appendicularians	
Species 13 – <i>Centropristis striata</i> (Black sea bass)								
(Able and Fahay 1998; Edwards et al. 2008; Steimle et al. 1999; Tucker 1989)		No nesting: pelagic on continental shelf	12-24° C; marine	Inner shelf waters 15-51m depth	35-75 hours	20-35 days	Zooplankton	

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