

Character Matrix for Florida Stonefly Nymphs

	Capniidae <i>Allocapnia</i> <i>Nemocapnia</i>	Leuctridae <i>Leuctra</i>	Nemouridae <i>Amphinemura</i>	Taeniopterygidae <i>Taeniopteryx</i>	Chloroperlidae <i>Alloperla</i> <i>Haploperla</i>	Petridae	Perlodidae	Petropertalidae <i>Tallaperla</i>	Pteronarcyidae <i>Pteronarcys</i>
Mouthparts	Type 1	Type 1, with long labial palpi, large submentum	Type 1	Type 1	Type 2	Type 2	Type 2	Type 1	Type 1
Wingpads	Parallel	Parallel	Divergent	Divergent	Parallel	Divergent	Divergent	Fused with thorax	Divergent
Gills	None	None	Cervical	Coxal, telescopic, 3-segmented	None	Branched thoracic	None or submental	Meso- & meta coxal, double conical	Branched on thorax & A1-A2
Abdomen	Pleural fold (A1-9); segments widening posteriorly	Pleural fold (A1-4); segments parallel sided	Short, legs can extend past apex	Dark with lighter mid-dorsal stripe and lateral dark spots	Unicolorous, with stout bristles	Variable, depending on genus	Variable, depending on genus	Terga clothed with fine setae, posterior margin of stout bristles	Terga with posterior margin of thick peglike setae
Cerci	Apical 2/3 with vertical fringe of hairs	Apical whorls of setae	Apical whorls of bristles	Complete vertical fringe of silky hairs	Short, 10-12 segments	Variable, depending on genus	Variable, depending on genus	About 30 segments with apical whorls of stout setae	Apical whorls of short thick bristles
Body Form	Very small, slender and elongate	Small, slender and elongate	Small, short and stout	Small, slender and elongate	Small, elongate	Small to large, depending on genus	Small (<i>Isoperla</i>) to medium size, elongate	Medium size, stout bodied, roach-like	Large, pronotum with projections at corners
Pigmentation	Yellowish brown	Yellowish brown	Light brown	Brown, with dorsal yellow stripe with dark border and pattern of dark spots	Pale or Straw yellow	Variable, depending on genus	Contrasting pigmentation patterns	Brown	Dark brown

Stoneflies (Plecoptera) of Florida: A Species Checklist and Summary of Geographic Distribution and Conservation Status

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The following species checklist (last updated September 2009) is based on published collection records and unpublished data. It is a working document that is being updated frequently. The checklist is not to be published and should not be considered a published work.

Conservation status is taken from the Florida Natural Areas Inventory (FNAI) Tracking Summary (2009-06-30) (available at: <http://www.fnai.org/trackinglist.cfm>). The tracking summary includes an explanation of the ranking system, which is used by The Nature Conservancy and the Natural Heritage Program Network.

Geographic distributions for species restricted to Florida are listed as **FLA**; species found in Florida and other parts of the Southeastern Coastal Plain are listed as **SCP**; species distributed across eastern North America are listed as **ENA**; species widespread across North America are listed as **W** (widespread). Geographic distributions within Florida are broadly characterized as: western panhandle (**WPan**), eastern panhandle (**EPan**), and/or peninsula (**Pen**).

We encourage people to contribute to this project by providing data. We are particularly interested in specimen data that would result in new state records or significant range extensions. We will be glad to verify the taxonomic identities of these specimens.

Species	Geographic Distribution				FNAI Global and State Rank
		Florida Bioregional Distribution			
EUHOLOGNATHA					
Capniidae					
1. <i>Allocapnia</i> sp.	?	WPan			
2. <i>Nemocapnia carolina</i> Banks	ENA	WPan	EPan	Pen	
Leuctridae					
3. <i>Leuctra cottaquilla</i> James	SCP	WPan			G2/S2
4. <i>Leuctra ferruginea</i> (Walker)	ENA	WPan	EPan		G5/S1S2
5. <i>Leuctra</i> n. sp.	SCP	WPan			
6. <i>Leuctra rickeri</i> James	ENA	WPan		Pen	
7. <i>Leuctra triloba</i> Claassen	ENA	WPan	EPan		G5/S1
Nemouridae					
8. <i>Amphinemura nigritta</i> (Provancher)	ENA	WPan	EPan		G5/S2

Taeniopterygidae						
9.	<i>Taeniopteryx burksi</i> Ricker & Ross	ENA	WPan	EPan		G5/S1S2
10.	<i>Taeniopteryx lita</i> Frison	ENA	WPan	EPan		
11.	<i>Taeniopteryx lonicera</i> Ricker & Ross	ENA	WPan			
SYSTELLOGNATHA						
Chloroperlidae						
12.	<i>Alloperla prognoides</i> Surdick & Stark	SCP	WPan			
13.	<i>Haploperla</i> sp.	?	WPan	EPan		
Peltoperlidae						
14.	<i>Tallaperla cornelia</i> (Needham & Smith)	SCP	WPan			G4/S1
Perlidae						
15.	<i>Acroneuria abnormis</i> (Newman)	W	WPan	EPan		
16.	<i>Acroneuria arenosa</i> (Pictet)	ENA	WPan	EPan	Pen?	
17.	<i>Acroneuria evoluta</i> Klapálek	ENA	WPan	EPan	Pen?	G5/S1S2
18.	<i>Acroneuria lycrorias</i> (Newman)	ENA	WPan	EPan		
19.	<i>Agnentina annulipes</i> (Hagen)	ENA	WPan	EPan		
20.	<i>Attaneuria ruralis</i> (Hagen)	ENA	WPan	EPan		
21.	<i>Eccoptura xanthenes</i> (Newman)	ENA	WPan	EPan		G5/S2
22.	<i>Neoperla carlsoni</i> Stark & Baumann	ENA	WPan	EPan		
23.	<i>Neoperla clymene</i> (Newman)	ENA	WPan	EPan	Pen	
24.	<i>Paragnetina fumosa</i> (Banks)	ENA	WPan	EPan		
25.	<i>Paragnetina kansensis</i> (Banks)	ENA	WPan	EPan		
26.	<i>Perlesta nitida</i> Banks ?	ENA		EPan		
27.	<i>Perlesta placida</i> (Hagen)	ENA	WPan	EPan	Pen	
28.	<i>Perlesta</i> sp. A		WPan			
29.	<i>Perlesta</i> sp. B		WPan			
30.	<i>Perlinella drymo</i> (Newman)	ENA	WPan	EPan		
31.	<i>Perlinella ephyre</i> (Newman)	ENA	WPan			
32.	<i>Perlinella zwicki</i> Kondratieff	SCP	WPan			G4/S1S2
Perlodidae						
33.	<i>Clioperla clio</i> (Newman)	ENA	WPan	EPan	Pen	
34.	<i>Helopicus bogaloosa</i> Stark & Ray	SCP	WPan	EPan		
35.	<i>Helopicus subvarians</i> (Banks)	ENA	WPan			G5/S1S2
36.	<i>Hydroperla phormidia</i> Ray & Stark	SCP	WPan	EPan		G3/S2
37.	<i>Isoperla bilineata</i> (Say)	W	WPan			
38.	<i>Isoperla davisii</i> James	SCP	WPan	EPan	Pen	
39.	<i>Isoperla dicala</i> Frison	ENA	WPan			
40.	<i>Isoperla orata</i> Frison	ENA	WPan			
41.	<i>Isoperla</i> sp. A	?	WPan			
42.	<i>Isoperla</i> sp. B	?	WPan			
43.	<i>Isoperla</i> sp. C	?			Pen	
Pteronarcyidae						
44.	<i>Pteronarcys dorsata</i> (Say)	W	WPan	EPan		