



7-31-1986

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Recommended Citation

Stark, B. P.; Szczytko, S. W.; and Baumann, R. W. (1986) "North American stoneflies (Plecoptera): systematics, distribution, and taxonomic references," *Great Basin Naturalist*. Vol. 46 : No. 3 , Article 1. Available at: <https://scholarsarchive.byu.edu/gbn/vol46/iss3/1>

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The Great Basin Naturalist

PUBLISHED AT PROVO, UTAH, BY
BRIGHAM YOUNG UNIVERSITY

ISSN 0017-3614

VOLUME 46

31 July 1986

No. 3

NORTH AMERICAN STONEFLIES (PLECOPTERA): SYSTEMATICS, DISTRIBUTION, AND TAXONOMIC REFERENCES

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ABSTRACT.—A list of 537 Nearctic stonefly species is provided and distributions of all species are given by U. S. state and Canadian province. The list includes a bibliography of systematic and biogeographic papers published since the Zwick (1973) catalogue.

Periodically, it is useful to update catalog information on such well-studied groups as the nearctic Plecoptera. The most recent update by Baumann (1976) included distributions of genera by regions and reported a total of 470 nearctic species; prior to that list, the Illies (1966) and Zwick (1973) catalogs provided sources from which distributional data could be extracted. Unfortunately, not only are these works somewhat unavailable to workers, but also they are somewhat out of date. Consequently, we present this list of 537 species currently recognized (as of January 1986) from North America. Distribution records are reported by standard postal service abbreviation for U. S. states and Canadian provinces; Mexican records are given as MX, but only those species of nearctic origin are included because of the poor state of knowledge of the neotropical *Anacroneturia*. The list includes unpublished records provided by B. C. Kondratieff and R. F. Kirchner, along with a few from our personal collections, and the bibliography includes only those papers published since the Zwick (1973) catalog that contain new state or province records, or which reflect systematic changes for nearctic Plecoptera.

Since this list is likely to expand and undergo change as generic and specific limits are refined and phylogenetic affinities are postulated, we are maintaining the list in computer files. Currently we are using IBM and AT&T personal computers with Wordstar and WordPerfect software and a fortran program developed at Mississippi College for the HP 3000 mainframe academic computer. We suggest others with a vital interest in Plecoptera may also want to adopt this approach.

LIST OF ABBREVIATIONS

AB	Alberta	KS	Kansas
AL	Alabama	KY	Kentucky
AK	Alaska	LA	Louisiana
AR	Arkansas	LB	Labrador
AZ	Arizona	MA	Massachusetts
BC	British Columbia	MB	Manitoba
CA	California	MD	Maryland
CO	Colorado	ME	Maine
CT	Connecticut	MI	Michigan
DC	District of Columbia	MN	Minnesota
DE	Delaware	MO	Missouri
FL	Florida	MS	Mississippi
GA	Georgia	MT	Montana
IO	Iowa	MX	Mexico
ID	Idaho	NB	Nebraska
IL	Illinois	NC	North Carolina
IN	Indiana	ND	North Dakota

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NF	Newfoundland	RI	Rhode Island
NH	New Hampshire	SC	South Carolina
NJ	New Jersey	SD	South Dakota
NM	New Mexico	SK	Saskatchewan
NS	Nova Scotia	TN	Tennessee
NT	Northwest Territories	TX	Texas
NV	Nevada	UT	Utah
NW	New Brunswick	VT	Vermont
NY	New York	VA	Virginia
OH	Ohio	WA	Washington
OK	Oklahoma	WI	Wisconsin
ON	Ontario	WV	West Virginia
OR	Oregon	WY	Wyoming
PA	Pennsylvania	YK	Yukon
QB	Quebec		

maria Hanson*minima* (Newport)*mohri* Ross & Ricker*mystica* Frison*nivicola* (Fitch)*ohioensis* Ross & Ricker*ozarkana* Ross*pechumani* Ross & Ricker*peltoides* Ross & Ricker*perplexa* Ross & Ricker*polemistis* Ross & Ricker*pygmaea* (Burmeister)*recta* (Claassen)*rickeri* Frison*sandersoni* Ricker*simmonsii* Kondratieff & Voshell*smithi* Ross & Ricker*stannardi* Ross*tennessa* Ross & Ricker*unzickeri* Ross & Yamamoto*virginiana* Frison

CT, MA, MD,
 ME, NH, NS,
 NW, NY, PA,
 QB, VA, VT, WV
 CT, IN, MA,
 ME, MI, MN,
 NF, NH, NS,
 NW, NY, ON,
 QB, VT, WI
 AR, MO, OK
 AL, AR, GA, IL,
 IN, KY, MO,
 MS, OH, TN,
 VA, WV
 AL, CT, DC,
 DE, IL, IN, KY,
 MA, MD, NC,
 NJ, NS, NW,
 NY, OH, PA,
 QB, RI, TN, VA,
 VT, WI, WV
 IN, KY, NY, OH,
 WV
 AR
 NW, NY, QB
 AR, OK
 TN
 AL
 CT, DC, IN, KY,
 MA, MD, ME,
 MI, MN, MO,
 NH, NS, NW,
 NY, ON, PA,
 QB, RI, TN, VA,
 VT, WI, WV
 AL, CT, DC,
 DE, GA, IL, IN,
 KY, MA, MD,
 ME, MS, NC,
 NH, NS, NY,
 OH, ON, PA,
 QB, SC, TN, VA,
 VT, WI, WV
 AL, AR, DC,
 DE, GA, IA, IN,
 KS, KY, MD,
 MN, MO, MS,
 NC, NJ, NY,
 OH, OK, ON,
 PA, TN, VA, WI,
 WV
 AR, MO, OK
 VA
 AL, IL, KY, OH
 NC, TN, VA
 AL, TN
 TN
 AL, DE, GA,
 MS, NC, SC, VA

ACKNOWLEDGMENTS

We thank B. C. Kondratieff for reviewing an early draft of the list and L. C. Whitlock for his expertise in developing the HP 3000 program.

EUHOLOGNATHA

Capniidae

Capniinae

Allocapnia

aurora RickerAL, DC, GA,
MD, MS, NC,
SC, TN, VA*brooksi* Ross

TN

cunninghami Ross & Ricker

KY, TN

curiosa FrisonKY, MD, NY,
PA, VA, WV*forbesi* FrisonIL, IN, KY, OH,
TN, WV*frisoni* Ross & RickerKY, NY, OH, PA,
TN, VA, WI, WV*frumi* Kirchner

WV

fumosa Ross

NC, TN, VA

granulata (Claassen)AL, AR, DC, IA,
IL, IN, KS, KY,
LA, MB, MD,
MI, MN, MO,
MS, NJ, NY,
OH, OK, ON,
PA, QB, TN, TX,
VA, WI, WV*harperi* Kirchner

VA, WV

illinoensis FrisonIL, IN, ME, MN,
NY, OH, ON,
QB, VA, WI*indiana* Ricker

IN, KY, NY, OH

jeanae Ross

AR, OK

loshada Ricker

TN, VA, WV

malverna Ross

AR, LA, OK, TX

<i>vivipara</i> (Claassen)	DC, IA, IL, IN, KS, KY, MD, MI, MN, MO, NY, OH, OK, ON, PA, QB, TN, VA, WI, WV AR	<i>pilcata</i> Jewett <i>promota</i> Frison <i>quadrituberosa</i> Hitchcock <i>scobina</i> Jewett <i>sextuberculata</i> Jewett <i>spinulosa</i> Claassen <i>sugluka</i> Ricker <i>teresa</i> Claassen <i>tumida</i> Claassen <i>uintahi</i> Gaufin <i>umpqua</i> Frison <i>utahensis</i> Gaufin & Jewett <i>cenosa</i> (Banks) <i>vernalis</i> (Newport)	BC, OR BC, CA, OR, WA CA CA AB, MT, OR CA QB CA BC, CA, OR ID, NV, UT, WY CA, OR NV, UT OR, WA AB, BC, CO, ID, LB, MB, MN, MT, NM, OH, ON, QB, SK, UT, WI, WY CO, NM, NV, UT, WY OR ID
<i>warreni</i> Ross & Yamamoto <i>wrayi</i> Ross	DC, DE, GA, MD, NC, SC, TN, VA CT, KY, ME, NW, NY, OH, PA, TN, VA, WV	<i>wanica</i> Frison <i>willametta</i> Jewett <i>zukei</i> Hanson	
<i>zola</i> Ricker			
Bolshecapnia			
<i>gregsoni</i> (Ricker)	BC		
<i>maculata</i> (Jewett)	CA		
<i>milami</i> (Nebeker & Gaufin)	AB, ID, MT		
<i>rogozera</i> (Ricker)	BC		
<i>sasquatchi</i> (Ricker)	AB, BC, MT		
<i>spenceri</i> (Ricker)	AB, BC, MT		
Capnia			
<i>bakeri</i> (Banks)	CA		
<i>barbata</i> Frison	AZ, CO, NM		
<i>barberi</i> Claassen	CA		
<i>californica</i> Claassen	AZ, CA		
<i>cheama</i> Ricker	AB, BC, MT, YK		
<i>coloradensis</i> Claassen	CO, ID, MB, MT, NM, SK, WY, YK		
<i>confusa</i> Claassen	AB, AK, BC, CO, ID, MB, MT, NM, SK, UT, WY		
<i>cygna</i> Jewett	ID, MT, UT, WA		
<i>decepta</i> (Banks)	CO		
<i>disala</i> Jewett	OR		
<i>elevata</i> Frison	OR, WA		
<i>elongata</i> Claassen	BC, CA, OR, WA		
<i>ensicala</i> Jewett	OR, WA		
<i>erecta</i> Jewett	OR		
<i>excavata</i> Claassen	AK, BC, CA		
<i>fibula</i> Claassen	AZ, NM		
<i>glabra</i> Claassen	CA, OR		
<i>gracilaria</i> Claassen	AB, BC, CA, CO, ID, MB, MT, NM, NV, OR, SK, UT, WY NV		
<i>hornigi</i> Baumann & Sheldon	OR		
<i>jewetti</i> Frison	CA, NV		
<i>lacustra</i> Jewett	OR		
<i>licina</i> Jewett	CA, ID		
<i>lineata</i> Hanson	CT, MB, ME, QB, WI		
<i>manitoba</i> Claassen	AK, BC, OR		
<i>melia</i> Frison	AB, AK, BC, CO, ID, MT, OR, UT, WY		
<i>nana</i> Claassen	AK, BC, MB, NT, ON		
<i>ncarctica</i> Banks	ID		
<i>nedia</i> Nebeker & Gaufin	OR		
<i>oregona</i> Frison	AB, ID, MT, OR, WY		
<i>petila</i> Jewett			
		<i>Eucapnopsis</i>	
		<i>brevicauda</i> Claassen	AB, AK, AZ, BC, CA, CO, ID, MT, NM, NV, OR, UT, WY
		Isocapnia	
		<i>abbreviata</i> Frison	CA, OR
		<i>agassizi</i> Ricker	BC, OR, WA
		<i>crinita</i> (Needham & Claassen)	CO, ID, MT, SK, UT BC
		<i>fraseri</i> Ricker	AB, AK, BC, CA, CO, MT, OR, UT
		<i>grandis</i> (Banks)	CO, ID, MT, UT AB, MT
		<i>hyalita</i> Ricker	AB, ID, MT, SK, UT
		<i>integra</i> Hanson	OR
		<i>missouri</i> Ricker	BC, CA, OR AB, BC, MT, NM, UT
		<i>mogila</i> Ricker	
		<i>spenceri</i> Ricker	
		<i>vedderensis</i> (Ricker)	
		Mesocapnia	
		<i>arizonensis</i> (Baumann & Gaufin)	AZ, NM
		<i>autumna</i> (Baumann & Gaufin)	AK, BC, OR, WA
		<i>bergi</i> (Ricker)	AK
		<i>frisoni</i> (Baumann & Gaufin)	CO, NM, TX, UT
		<i>lapuae</i> (Baumann & Gaufin)	CA, ID, OR
		<i>oenone</i> (Neave)	AB, AK, BC, MT, OR, WA, YK
		<i>ogotoruka</i> (Jewett)	AK
		<i>porrecta</i> (Jewett)	CA, OR, WA
		<i>projecta</i> (Frison)	BC, CA, OR, WA
		<i>variabilis</i> (Klapalek)	AK, BC
		<i>werneri</i> (Baumann & Gaufin)	AZ, CA, NM
		<i>yoloensis</i> (Baumann & Gaufin)	CA, OR
		Nemocapnia	
		<i>carolina</i> Banks	AL, AR, FL, IL, IN, MS, NC, QB, SC, VA

Paracapnia			
<i>angulata</i> Hanson	CO, CT, DE, IL, MA, MB, MD, ME, MI, NC, OH, OK, PA, QB, SK, TN, VA, WI, WV, WY	<i>rickeri</i> James	AL, IL, KY, MS, OH
<i>opis</i> (Newman)	CT, ME, MN, NF, NY, ON, PA, QB, WI	<i>sibleyi</i> Claassen	CT, DE, IL, IN, KY, MA, MD, ME, NC, NY, OH, ON, PA, QB, SC, TN, VA, WI, WV
<i>oswegaptera</i> (Jewett)	OR, WA	<i>szczytkoi</i> Stark & Stewart	LA
		<i>tenella</i> Provancher	CT, IN, LB, MA, ME, MN, MS, NJ, NS, NW, NY, ON, PA, QB, WI
Utacapnia			
<i>columbiana</i> (Claassen)	AB, AK, BC, CA, MT, OR, YK	<i>tenuis</i> (Pictet)	AL, AR, CT, DE, IL, MA, ME, MI, MN, MO, MS, NJ, NS, NY, OH, OK, ON, PA, QB, SC, TN, VA, WI, WV
<i>distincta</i> (Frison)	AB, ID, MT, WY		FL, NC, NY, QB, SC, VA
<i>imbera</i> (Nebeker & Gaufin)	OR, WA	<i>triloba</i> Claassen	CT, ME, NY, PA, QB, VA, WV
<i>labradora</i> (Ricker)	LB, QB	<i>truncata</i> Claassen	MA, ME, NH, VA, VT
<i>lemoniana</i> (Nebeker & Gaufin)	CO, ID, NV, UT, WY	<i>variabilis</i> Hanson	
<i>logana</i> (Nebeker & Gaufin)	CO, NM, UT, WY		
<i>poda</i> (Nebeker & Gaufin)	CO, MT, NM, UT, WY	Moselia	
<i>sierra</i> (Nebeker & Gaufin)	CA	<i>infusata</i> (Claassen)	BC, CA, NV, OR, WA
<i>tahoensis</i> (Nebeker & Gaufin)	CA, NV		
<i>trava</i> (Nebeker & Gaufin)	AB, ID, MB, MT, SK	Paraleuctra	
		<i>andersoni</i> Harper & Wildman	CA, OR
Leuctridae		<i>divisa</i> (Hitchcock)	CA
		<i>forcipata</i> (Frison)	AB, AK, BC, CA, ID, MT, OR
Leuctrinae		<i>jewetti</i> Nebeker & Gaufin	CO, MT, UT
		<i>occidentalis</i> (Banks)	AB, AK, BC, CA, CO, ID, MT, NM, NV, OR, UT, WY
Despaxia		<i>purcellana</i> (Neave)	AB, BC, MT, OR, WY
<i>augusta</i> (Banks)	AK, BC, CA, ID, MT, OR, WA	<i>rickeri</i> Nebeker & Gaufin	AK, ID, MT, NM, UT
		<i>sara</i> (Claassen)	CT, DE, KY, MA, ME, NC, NY, ON, QB, SC, TN, VA, WV
Leuctra		<i>vershina</i> Gaufin & Ricker	AB, AK, BC, CA, CO, ID, MT, NM, NV, OR, SK, UT, WA, WY
<i>alabama</i> James	AL		
<i>alexanderi</i> Hanson	KY, NC, SC, TN, VA, WV	Perlomyia	
<i>alta</i> James	AL	<i>collaris</i> Banks	BC, CA, ID, OR
<i>baddleecki</i> Ricker	NS	<i>utahensis</i> Needham & Claassen	AB, BC, CA, CO, MT, NM, NV, OR, UT, WA, WY
<i>biloba</i> Claassen	AL, GA, NC, ON, TN, VA		
<i>carolinensis</i> Claassen	NC, PA, SC, TN, VA	Zealeuctra	
<i>cottaquilla</i> James	AL, FL, MS	<i>arnoldi</i> Ricker & Ross	TX
<i>crossi</i> James	AL	<i>cherokee</i> Stark & Stewart	AR, OK
<i>duplicata</i> Claassen	CT, ME, NY, ON, PA, QB, VA, WV	<i>claasseni</i> (Frison)	AR, IL, IN, KS, KY, MO, OK, TX, VA
<i>ferruginea</i> (Walker)	AL, CT, DE, FL, IL, KY, MA, ME, MN, MS, NS, OH, PA, QB, SC, SK, VA, WI, WV		
<i>grandis</i> Banks	MA, ME, NC, PA		
<i>laura</i> Hitchcock	NH		
<i>maria</i> Hanson	CT, NH, ON, QB, VT		
<i>mittchellensis</i> Hanson	NC, VA		
<i>moha</i> Ricker	AL, GA, SC		
<i>monticola</i> Hanson	NC, SC, TN, VA		
<i>nephophila</i> Hanson	NC, TN		

<i>fraxina</i> Ricker & Ross	IL, KY, OH, TN, WV	<i>flexura</i> (Claassen)	AB, CO, ID, MT, NM, OR, WA, WY
<i>hitei</i> Ricker & Ross	TX		CA
<i>narfi</i> Ricker & Ross	AR, IL, MO, OK, WI	<i>marionae</i> (Hitchcock)	OR, WA
<i>warreni</i> , Ricker & Ross	AR, MO, OK	<i>perplexa</i> (Frison)	ID, MT, NV, OR, WA
<i>washita</i> Ricker & Ross	AR	<i>tina</i> (Ricker)	WA
		<i>wcnatchee</i> (Ricker)	
	Megaleuctrinae		
Megaleuctra			
<i>complicata</i> Claassen	OR, WA	Lednia	
<i>flinti</i> Baumann	PA, VA	<i>tumana</i> (Ricker)	MT
<i>kincaidi</i> Frison	ID, OR, WA	Nemoura	
<i>sierra</i> Fields	CA	<i>arctica</i> Esben-Petersen	AB, AK, BC, MB, QB, SD AK, NT
<i>stigmata</i> (Banks)	AB, BC, MB, MT, WA	<i>uormani</i> Ricker	AK, MB, SK
<i>williamsae</i> Hanson	SC, TN, VA	<i>rickeri</i> Jewett	CA
		<i>spiniloba</i> Jewett	IL, LB, MB, ME, NS, NY, ON, QB, WI
		<i>trispinosa</i> Claassen	
	Nemouridae		
	Amphinemurinae		
Amphinemura		Ostrocerca	
<i>apache</i> Baumann & Gaufin	AZ	<i>albidipennis</i> (Walker)	CT, MA, ME, NH, NS, NY, ON, QB, VA
<i>banksi</i> Baumann & Gaufin	AZ, CO, ID, MT, SD, UT, WY	<i>complexa</i> (Claassen)	CT, MA, ME, NY, ON, PA, QB, VA, WV
<i>delosa</i> (Ricker)	AL, AR, CA, IL, IN, KS, KY, MI, MO, MS, OH, OK, ON, PA, QB, TN, VA, WI, WV	<i>dimicki</i> (Frison)	BC, OR, WA
<i>linda</i> (Ricker)	AB, AK, BC, CO, LB, MB, MI, NT, ON, PA, QB, SK, WI MX	<i>foersteri</i> (Ricker)	BC, OR, WA
<i>mexicana</i> Baumann	TN	<i>prolongata</i> (Claassen)	DE, ME, NH, NW, QB, VA, WV
<i>mockfordi</i> (Ricker)	AZ, NM, UT	<i>truncata</i> (Claassen)	CT, MA, MD, ME, NY, OH, ON, PA, QB, VA, WV
<i>mogollonica</i> Baumann & Gaufin	AL, CT, DE, FL, GA, IL, IN, KY, LA, LB, ME, MS, NS, OH, PA, QB, SC, TN, TX, VA, WV	Paranemoura	
<i>nigritta</i> (Provancher)		<i>perfecta</i> (Walker)	CT, ME, NC, NS, NY, ON, PA, QB, VA, WV
<i>puebla</i> Baumann	MX	Podmosta	
<i>reinerti</i> Baumann	MX	<i>decepta</i> (Frison)	AB, AK, BC, CO, ID, MT, OR, UT, WA
<i>varshava</i> (Ricker)	IL, IN, KY, PA, WI	<i>delicatula</i> (Claassen)	AB, BC, CA, CO, ID, MT, NM, NV, OR, SK, UT, WY
<i>venusta</i> (Banks)	AZ, MX	<i>macdunnoughi</i> (Ricker)	LB, ME, NF, NS, QB
<i>wui</i> (Claassen)	CT, DE, GA, KY, MA, ME, NC, NJ, NS, NW, NY, PA, QB, SC, TN, VA, WV	<i>obscura</i> (Frison)	OR, WA
		<i>ueberi</i> (Ricker)	AK, YK
Malenka		Prostoia	
<i>bifurcata</i> (Claassen)	OR, WA	<i>besametsa</i> (Ricker)	AB, BC, CA, CO, ID, MT, NM, NV, OR, UT, WY
<i>biloba</i> (Claassen)	CA	<i>completa</i> (Walker)	AL, AR, DE, IL, MA, ME, MI, MN, MO, MS, NC, NS, OK, ON, QB, SC, VA, WI, WV
<i>californica</i> (Claassen)	AB, BC, CA, CO, ID, MB, MT, NV, SK, UT, WY		
<i>coloradensis</i> (Banks)	AZ, CO, NM, SD, UT, WY		
<i>cornuta</i> (Claassen)	BC, OR, WA		
<i>depressa</i> (Banks)	CA, OR		

hallasi Kondratieff & Kirchner
similis (Hagen)

VA
CT, DE, IN, KY,
MA, ME, MI,
MN, OH, QB,
SC, VA, WI, WV

Oemopteryx

contorta (Needham & Claassen)

CT, KY, MA,
ME, NH, TN,
VA, WV

fosketti (Ricker)

AB, CO, MB,
MT, SK, UT

glacialis (Newport)

CT, MN, NY,
ON, QB, WI
CA

vanduzeeae (Claassen)

Strophopteryx

appalachia Ricker & Ross

NC, TN, VA, WV
AR, MO

arkansae Ricker & Ross

OK

cucullata Frison

AL, CT, DE, IN,
KS, KY, MB,
ME, MN, MS,
NC, ND, OH,
OK, PA, QB, SC,
WI

fasciata (Burmeister)

inaya Ricker & Ross

NC, SC

limata (Frison)

TN, VA

ostra Ricker & Ross

AR, OK, TX

Taenionema

atlanticum Ricker & Ross

CT, KY, LB, MA,
MD, ME, NC,
NF, NH, NY,
QB, TN, VA, WV

californicum (Needham & Claassen)

CA

grinnelli (Banks)

CA

nigripenne (Banks)

AB, AZ, BC, CA,
CO, ID, MT,
NM, NV, OR,
UT, WA, WY

oregonense (Needham & Claassen)

OR, WA

pacificum (Banks)

AB, AZ, BC, CA,
CO, ID, MT,
NM, OR, UT,
WA, WY

pallidum (Banks)

BC, CA, CO,
MT, NM, OR,
UT, WA
CA

raynorium (Claassen)

Taeniopteryginae**Taeniopteryx**

burksi Ricker & Ross

AL, CT, DE, FL,
IA, IL, IN, KS,
KY, LA, MD,
ME, MN, MO,
MS, OH, OK,
ON, PA, QB,
TN, TX, VA, WI,
WV

lita Frison

AL, AR, FL, IL,
IN, KY, LA, MS,
NC, NJ, SC, TX,
VA

lonicera Ricker & Ross

AL, FL, GA, LA,
MD, MS, SC,
TN, TX, VA

Shipsa

rotunda (Claassen)

AB, AK, AL,
MB, MD, ME,
MI, MN, NT,
ON, QB, SC, SK,
VA, WI

Soyedina

carolinensis (Claassen)

DE, NC, TN,
VA, WV

interrupta (Claassen)

BC, OR, WA

nevadensis (Claassen)

CA, NV

potteri (Baumann & Gaufin)

ID, MT

producta (Claassen)

BC, CA, OR, WA

vallicularia (Wu)

CT, IN, KY, ME,
MI, NS, NY,
OH, ON, PA,
QB, VA, WI, WV
CT, ME, NH, PA

washingtoni (Claassen)

Visoka

cataractae (Neave)

AB, BC, CA, ID,
MT, OR, WA

Zapada

chila (Ricker)

TN

cinctipes (Banks)

AK, BC, CA,
CO, ID, MB,
MT, NM, NV,
SD, SK, UT, WY

columbiana (Claassen)

AB, AK, BC, CA,
ID, MT, OR, UT,
WA, WY

cordillera (Baumann & Gaufin)

CA, ID, MT, OR,
WA

frigida (Claassen)

AB, AK, BC, CA,
CO, ID, MT,
NM, NV, OR,
UT, WA

glacier (Baumann & Gaufin)

MT

haysi (Ricker)

AB, AK, BC, CA,
CO, ID, MT,
NM, NV, OR,
UT, WA, WY

oregonensis (Claassen)

AB, AK, BC, CA,
CO, ID, MT,
NV, OR, WY, YK
OR

wahkeena (Jewett)

Taeniopterygidae**Brachypteryginae****Bolotoperla**

rossi (Frison)

ME, NC, NH,
QB, VA, WV

Doddsia

occidentalis (Banks)

AK, BC, CA,
CO, ID, MT,
NM, NV, OR,
UT, WA, WY

<i>lineosa</i> (Banks)	BC, CO, ID, MT, OR, SK, UT, WA, WY	Paraperlinae
<i>marginata</i> (Banks)	LB, MA, ME, NY, PA, QB, VA, WV, WI	Kathroperla <i>perditia</i> Banks
<i>pallidula</i> (Banks)	AB, AK, AZ, BC, CA, CO, ID, MB, MT, NM, NV, OR, UT, WA, WY	AB, BC, CA, ID, MT, NV, OR, WA
Sweltsa		Paraperla <i>frontalis</i> (Banks)
<i>albertensis</i> (Needham & Claassen)	AB, ID, MT, WY	AB, AK, BC, CA, CO, ID, MT, NM, OR, SD, UT, WA, WY, YK
<i>borealis</i> (Banks)	AB, AK, BC, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, WY, YK	AB, BC, CA, ID, MT, OR, WA, YK
<i>californica</i> (Jewett)	CA	
<i>coloradensis</i> (Banks)	AB, AZ, BC, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, WY	Peltoperlidae Peltoperlinae
<i>continua</i> (Banks)	CA	Peltoperla <i>arcuata</i> Needham
<i>exquisita</i> (Frison)	AK, BC, OR, WA	KY, NY, PA, QB, TN, VA, WV
<i>fidelis</i> (Banks)	AB, AK, BC, CA, CO, ID, NV, MT, OR, UT, WA, WY, YK	Sierraperla <i>cora</i> (Needham & Smith)
<i>gaufini</i> Baumann	ID, UT	CA, NV, OR
<i>hondo</i> Baumann & Jacobi	NM	Soliperla <i>campanula</i> (Jewett)
<i>lamba</i> (Needham & Claassen)	CO, ID, MT, NM, OR, UT, WY	OR WA
<i>lateralis</i> (Banks)	CT, GA, MA, ME, NC, NH, PA, QB, SC, VA	<i>fendleri</i> (Jewett)
<i>mediana</i> (Banks)	AL, CT, NC, PA, TN, VA	<i>quadrispinula</i> (Jewett)
<i>naica</i> (Provancher)	IN, LB, ME, NS, NY, PA, QB, VA	<i>sierra</i> Stark
<i>occidens</i> (Frison)	BC, ID, MT, OR, WA	<i>thyra</i> (Needham & Smith)
<i>onkos</i> (Ricker)	DE, KY, LB, ME, NC, NS, NY, OH, ON, PA, QB, VA	<i>tillamook</i> Stark
<i>oregonensis</i> (Frison)	AK, BC, OR, WA	Tallaperla <i>anna</i> (Needham & Smith)
<i>pacifica</i> (Banks)	AK, BC, CA, ID, OR, WA	GA, NC, PA, SC, VA, FL, GA, NC, SC NC, TN
<i>revelstoka</i> (Jewett)	AB, BC, MT, OR, WA, WY	<i>clisa</i> Stark
<i>tamalpa</i> (Ricker)	CA	<i>laurie</i> (Ricker)
<i>townesi</i> (Ricker)	CA, NV	<i>lobata</i> Stark
<i>urticae</i> (Ricker)	NC, VA	<i>maria</i> (Needham & Smith)
Triznaka		CT, DE, GA, MA, MD, ME, NC, NH, NY, PA, SC, TN, VA, WV
<i>pintada</i> (Ricker)	AZ, CA, CO, ID, NM, NV, SD, UT, WA, WY	Viehoperla <i>ada</i> (Needham & Smith)
<i>signata</i> (Banks)	AK, BC, CO, ID, MT, NM, OR, SD, SK, UT, WA, WY	GA, NC, SC, TN
		Yoraperla <i>brevis</i> (Banks)
		AB, BC, CA, ID, MT, NV, OR, WA, WY
		<i>mariana</i> (Ricker)
		BC, CA, OR, WA
		Perlidae
		Acroneuriinae
		Acroneuriini
		Acroneuria <i>abnormis</i> (Newman)
		AB, AL, CO, CT, DE, FL, GA, IA, IL, IN, KS, KY, LA, MA, MB,

	MD, ME, MI, MN, MS, MT, NB, NC, NM, NW, NY, OH, ON, PA, QB, SC, SK, TN, UT, VA, WI, WV, WY	Eccoptura <i>xanthenes</i> (Newman)	AL, CT, DE, FL, GA, KY, MD, MS, NC, OH, PA, SC, TN, VA, WV
<i>arenosa</i> (Pictet)	AL, DC, DE, FL, GA, LA., MD, ME, MS, NJ, PA, QB, SC, TX, VA, WV	Hansanoperla <i>appalachia</i> Nelson	MA, TN, WV
<i>arida</i> (Hagen)	GA, NC, NJ, PA, TN	Hesperoperla <i>hoguei</i> Baumann & Stark <i>pacifica</i> (Banks)	CA AB, AK, AZ, BC, CA, CO, ID, MT, NM, NV, OR, SD, SK, UT, WA, WY
<i>carolinensis</i> (Banks)	CT, KY, MA, MB, ME, MN, NC, NJ, NY, OH, ON, PA, QB, SC, TN, VA, WV	Perlesta <i>frisoni</i> Banks <i>placida</i> (Hagen)	NC, SC, TN AL, AR, AZ, CT, DC, DE, FL, GA, IA, IL, IN, KS, KY, LA, MA, MB, ME, MO, MS, NB, OH, OK, ON, PA, QB, SC, SK, TN, TX, UT, VA, WI, WV, WY
<i>evoluta</i> Klapalek	AR, IL, IN, KS, KY, MI, MO, OH, OK, ON, PA, TN, VA, WV		
<i>filicis</i> Frison	AL, AR, GA, IL, IN, KY, MD, MO, OH, SC, TN, VA, WV		
<i>flinti</i> Stark & Gaufin <i>internata</i> (Walker)	VA AR, GA, IL, IN, KY, MI, MN, MO, OK, VA, WI, WV	Perlinella <i>drymo</i> (Newman)	AL, AR, CT, FL, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MO, MS, NY, OH, OK, QB, SC, TX, VA, WI, WV
<i>lycorias</i> (Newman)	AB, CT, IL, KY, MB, ME, MI, MN, NY, OH, ON, PA, QB, SK, TN, VA, WI, WV	<i>ephyre</i> (Newman)	AL, AR, CT, FL, IN, KY, LA, MD, MN, MO, MS, NJ, OK, PA, SC, VA, WI, WV
<i>mela</i> Frison	AL, AR, FL, GA, IL, IN, KS, MO, MS, OK, PA, TX	<i>fumipennis</i> (Walsh)	AL, CT, FL, IL, MS, SC
<i>perplexa</i> Frison	AL, AR, DC, GA, IL, IN, KY, MO, OH, OK, PA, TN, WV		
<i>petersi</i> Stark & Gaufin	GA, TN		
Attaneuria <i>ruralis</i> (Hagen)	AL, AF, DC, FL, GA, IA, IL, IN, KS, MB, MD, MN, MO, MS, NC, PA, SC, TN, VA, WI	Anacroneuriini Anacroneuria <i>wipukupa</i> Baumann & Olson	AZ
Beloneuria <i>georgiana</i> (Banks) <i>jamesae</i> Stark & Szczytko <i>stewarti</i> Stark & Szczytko	GA, NC AL NC, SC, TN	Perlinae Neoperlini	
Calineuria <i>californica</i> (Banks)	AB, BC, CA, ID, MT, OR, WA	Neoperla <i>carlsoni</i> Stark & Baumann <i>catharae</i> Stark & Baumann <i>choctawae</i> Stark & Baumann <i>clymene</i> (Newman)	FL, LA, MS, OK, SC, TX AR, OH, VA OK, WV AL, CT, FL, GA, IN, KS, LA, MS, NY, OK, ON, PA, QB, TX, VA, WI, WV AR, KY, ME, NY, OH, ON, SC, TN, VA
Doroneuria <i>baumanni</i> Stark & Gaufin <i>theodora</i> (Needham & Claassen)	BC, CA, NV, OR, WA AB, BC, ID, MT, UT, WY	<i>freytagi</i> Stark & Baumann	

<i>gaufini</i> Stark & Baumann	IN, KY, OH	<i>bilineata</i> (Say)	CO, CT, IL, IN, KS, KY, MA, MB, ME, MI, MN, MS, NB, NC, NF, NW, NY, OH, ON, PA, QB, SK, VA, WI, WV
<i>maincensis</i> Banks	ME, OH		
<i>stewarti</i> Stark & Baumann	AR, KY, ME, MS, OH, VA, WI		
	Perlini		
Agnatina			
<i>capitata</i> (Pictet)	CT, DC, DE, FL, GA, IN, KS, KY, LA, MA, MB, MD, ME, MN, MO, MS, NC, NH, NY, OH, OK, ON, PA, QB, SC, TN, VA, WI, WV	<i>burksi</i> Frison	AR, IL, IN, KY, OH, WV IL MA, MI, ON, QB, SC, WI, WV AR, DE, LA, MS, OK, TX, VA AL IL, IN, OH, ON AK, BC, MB, NT, SK, YK CA CT, FL, IN, MA, MB, ME, MI, MN, MO, ON, PA, QB, SC, TN, VA, WI, WV NC, SC, TN MN NB CT, MA, ME, NY, QB BC, CT, DE, IN, MB, ME, MN, NS, NW, OH, QB, WI AB, AZ, BC, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY AB, BC, ID, MT, OR, WA, WY, YK CT, NY, QB, WV OR, WA CT, DE, GA, KY, MA, ME, NC, NY, PA, QB, SC, TN, VA, WV TX CO, TX AK MA, ME, MI, MN, NS, ON, QB, TN, VA, WI, WV AB, BC, CO, IA, ID, IL, KS, MB, MN, MO, MT, NM, QB, SD, SK, UT, WI, WY VA IL, IN, KS, KY, MB, ME, MI, MN, NB, NH, NJ, NS, NW, OK, ON, PA, QB, SC, SK, VA, WI, WV
Claassenia		<i>conspicua</i> Frison	
<i>sabulosa</i> (Banks)	AB, AZ, BC, CA, CO, ID, MB, MT, NM, OR, QB, SD, SK, UT, WA, WY	<i>cotta</i> Ricker	
		<i>coushatta</i> Szczytko & Stewart	
Paragnetina		<i>davisi</i> James	
<i>funosa</i> (Banks)	AL, DC, FL, GA, LA, MS, NC, SC, TX, VA NC, SC, TN CT, DE, GA, MA, ME, NC, NH, NY, PA, QB, SC, TN, VA, WV	<i>decepta</i> Frison	
<i>ichusa</i> Stark & Szczytko		<i>decolorata</i> (Walker)	
<i>immarginata</i> (Say)		<i>denningi</i> Jewett	
<i>kansensis</i> (Banks)	AL, FL, GA, IL, IN, KS, LA, MS, SC	<i>dicala</i> Frison	
<i>media</i> (Walker)	CT, DE, IN, KY, MB, ME, MI, MO, NH, OH, ON, PA, QB, SK, VA, WI, WV	<i>distincta</i> Nelson	
		<i>emarginata</i> Harden & Mickel	
		<i>extensa</i> Claassen	
		<i>francesca</i> Harper	
		<i>frisoni</i> Illies	
		<i>fulva</i> Claassen	
		<i>fusca</i> Needham & Claassen	
		<i>gibbsae</i> Harper	
		<i>gravitans</i> (Needham & Claassen)	
		<i>holochlora</i> (Klapalek)	
		<i>irregularis</i> (Klapalek)	
		<i>jewetti</i> Szczytko & Stewart	
		<i>katmaiensis</i> Szczytko & Stewart	
		<i>lata</i> Frison	
		<i>longiseta</i> Banks	
		<i>major</i> Nelson & Kondratieff	
		<i>marlynia</i> (Needham & Claassen)	
Calliperla			
<i>luctuosa</i> (Banks)	CA, OR, WA		
Cascadopera			
<i>trictura</i> (Hoppe)	BC, CA, ID, MT, OR, WA		
Chlioperla			
<i>clio</i> (Newman)	AL, AR, CT, DE, FL, GA, IL, IN, KY, MA, MD, MI, MO, MS, NC, OH, OK, ON, PA, SC, TN, VA, WI, WV		
Isoperla			
<i>acula</i> Jewett	CA		
<i>adunca</i> Jewett	CA		
<i>baumanni</i> Szczytko & Stewart	CA		
<i>bellona</i> Banks	GA, NC		
<i>bifurcata</i> Szczytko & Stewart	CA, ID, OR, WA		

<i>marmorata</i> Needham & Claassen	CA, NV, OR, WA		Perlodinae	
<i>maxana</i> Harden & Mickel	MN			
<i>mohri</i> Frison	AR, IL, KS, LA, MO, OK, PA		Arcynopterygini	
<i>montana</i> (Banks)	CT, DE, ME, MN, NH, NS, NY, ON, PA, QB	Arcynopteryx		
<i>mormona</i> Banks	AZ, BC, CA, CO, ID, MT, NM, OR, UT, WA, WY	<i>compacta</i> (McLachlan)		AB, AK, BC, CO, ME, MT, NH, SK, WY
<i>namata</i> Frison	AR, IN, KY, ME, MO, OH, PA, VA, WV	Frisonia		
<i>nana</i> (Walsh)	IL, IN, KY, OH, ON, QB, WI	<i>picticeps</i> (Hanson)		BC, CA, NV, OR, WA
<i>orata</i> Frison	CT, FL, ME, MN, NC, NH, NS, NW, NY, OH, PA, QB, SC, TN, VA, VT, WV	Megarcyx		
<i>ouachita</i> Stark & Stewart	AR, OK	<i>irregularis</i> (Banks)		BC, WA
<i>petersoni</i> Needham & Christenson	AB, AK, BC, CO, ID, MT, SK, UT, WY, YK	<i>signata</i> (Hagen)		AK, BC, CO, ID, MT, NM, NV, UT, WY
<i>phalerata</i> (Smith)	CO, ID, NM, OR, SD, UT, WY	<i>subtruncata</i> Hanson		BC, ID, MT, OR, WA
<i>pinta</i> Frison	AB, BC, CA, CO, ID, MT, OR, UT, WA, WY	<i>watertoni</i> (Ricker)		AB, BC, ID, MT
<i>quinquepunctata</i> (Banks)	AB, BC, CA, CO, ID, MT, NM, NV, OR, SD, SK, UT, WY	<i>yosemite</i> (Needham & Claassen)		CA, WA
<i>raineri</i> Jewett	OR, WA	Oroperla		
<i>richardsoni</i> Frison	CT, IL, KY, MN, PA, WI, WV	<i>barbara</i> Needham		CA
<i>roguensis</i> Szczytko & Stewart	CA, OR	Perlinodes		
<i>sagittata</i> Szczytko & Stewart	TX	<i>aurea</i> (Smith)		AB, CA, ID, MT, OR, WA, WY
<i>signata</i> (Banks)	CT, MB, ME, MI, MN, NS, NW, NY, OH, OK, PA, QB, VA, WI, WV	Setvena		
<i>similis</i> (Hagen)	CT, DE, KY, MA, MD, ME, NC, NH, PA, QB, SC, TN, VA, WV	<i>bradleyi</i> (Smith)		AB, BC, ID, MT
<i>slossonae</i> (Banks)	CT, ME, MI, MN, NH, NS, NW, NY, QB, VA, WI	<i>tibialis</i> (Banks)		BC, OR, WA
<i>sobria</i> (Hagen)	AB, AK, AZ, BC, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY, YK	<i>wahkeena</i> Stewart & Stanger		OR
<i>sordida</i> Banks	AB, BC, CA, ID, MT, OR, WA	Skwala		
<i>tilasqua</i> Szczytko & Stewart	OR	<i>curvata</i> (Hanson)		BC, ID, MT, OR, WA, WY
<i>transmarina</i> (Newman)	AB, BC, CT, DE, KY, LB, MB, ME, MI, MN, NF, NJ, NW, NY, ON, PA, QB, SK, VA, WI, WV	<i>parallela</i> (Frison)		AZ, BC, CA, CO, ID, MB, MT, NM, NV, OR, SK, UT, WA, WY
			Diploperlini	
		Baumannella		
		<i>alameda</i> (Needham & Claassen)		CA
		Cultus		
		<i>aestivalis</i> (Needham & Claassen)		AZ, BC, CO, ID, MT, NM, UT, WY, YK
		<i>decisus</i> (Walker)		CT, GA, IN, KY, ME, MI, NC, NY, OH, ON, PA, QB, TN, VA, WV
		<i>pilatus</i> (Frison)		BC, CA, ID, MT, OR, WA
		<i>tostonus</i> (Ricker)		BC, CA, ID, MT, OR, WA, WY
		Diploperla		
		<i>duplicata</i> (Banks)		AL, DE, GA, MS, SC, TN, VA, WV
		<i>kanawholensis</i> Kirchner & Kondratieff		WV
		<i>morgani</i> Kondratieff & Voshell		VA, WV
		<i>robusta</i> Stark & Gaufin		CT, IN, KY, OH, PA, VA, WV

Kogotus		<i>hansoni</i> (Ricker)	CT, MA, MD, ME, NC, NS, NW, NY, PA, QB, VA, WV
<i>nonus</i> (Needham & Claassen)	BC, CA, ID, MT, OR, WA, WY		
<i>modestus</i> (Banks)	BC, CO, ID, MT, NM, UT, WY	<i>krumholzi</i> (Ricker) <i>olivaceus</i> (Walker)	MB, MI, MN MI, MN, ON, QB, WI
Osobenus		<i>varians</i> (Walsh)	IL, IN, MI, MN, MS, SC, TN
<i>yakimae</i> (Hoppe)	BC, CA, OR, WA		AK, AZ, CO, NM, UT
Pictetiella		<i>zionensis</i> Hanson	
<i>expansa</i> (Banks)	CO, ID, MT, UT, WY		
Remenus		Malirekus	
<i>bilobatus</i> (Needham & Claassen)	AL, CT, DE, GA, KY, NC, NY, PA, SC, TN, VA, WV	<i>hastatus</i> (Banks)	GA, KY, ME, NC, NY, QB, SC, TN, VA, VT, WV
Rickera		Oconoperla	
<i>sorpta</i> (Needham & Claassen)	CA, NV, OR, WA	<i>innubila</i> (Needham & Claassen)	NC, SC, TN
	Perlodini	Yugus	
Chernokrilus		<i>arinus</i> (Frison)	GA, NC, PA, SC, TN, VA, WV
<i>erratus</i> (Claassen)	CA	<i>bulbosus</i> (Frison)	GA, NC, PA, SC, TN, VA, WV
<i>minomus</i> (Claassen)	CA, OR		
<i>renustus</i> (Jewett)	CA	Pteronarcyidae	
Diura		Pteronarcyinae	
<i>bicaudata</i> (Linnaeus)	AK, MB, NT, SK, YK	Pteronarcellini	
<i>knowltoni</i> (Frison)	AB, BC, CA, CO, ID, MT, NM, NV, OR, SK, UT, WY, YK	Pteronarcella	
<i>nanseni</i> (Kempny)	NH, QB	<i>badia</i> (Hagen)	AB, AK, AZ, BC, CO, ID, MT, NM, NV, OR, SK, UT, WY
Helopicus		<i>regularis</i> (Hagen)	AB, AK, CA, NV, OR, WA
<i>bogaloosa</i> Stark & Ray	FL, GA, LA, MS, SC		
<i>nalatus</i> (Frison)	AR, IN, KS, MI, MO, OK	Pteronarcyini	
<i>rickeri</i> Stark	TN	Pteronarcys	
<i>subvarians</i> (Banks)	CT, FL, KY, ME, NC, ON, PA, QB, SC, TN, VA, WV	<i>biloba</i> Newman	AL, CT, GA, MA, ME, NC, NH, NS, NY, PA, QB, SC, VA, WV
Hydroperla		<i>californica</i> Newport	AK, AZ, BC, CA, CO, ID, MT, NM, OR, UT, WA, WY
<i>crossi</i> (Needham & Claassen)	AR, IL, IN, KS, MO, OK, TX	<i>comstocki</i> Smith	ME, NW, NY, PA, VA, WV
<i>fugitans</i> (Needham & Claassen)	AR, IL, IN, KS, TN, TX	<i>dorsata</i> (Say)	AL, AB, AK, BC, FL, IL, KS, KY, LA, LB, MB, ME, MN, MS, MT, NB, NY, OH, PA, QB, SC, SK, TN, VA, WI, WV, WY
<i>phormidia</i> Ray & Stark	FL, SC		CT, IL, IN, KS, KY, MB, MN, MO, OH, PA, TN, WI
Isogenoides		Pteronarcys	BC, CA, ID, NV, OR, UT
<i>colubrinus</i> (Hagen)	AB, AK, AZ, BC, CA, CO, ID, MB, MT, NT, SK, UT, WY, YK	<i>pictetii</i> Hagen	KY, MB, ME, NC, NH, NY, PA, QB, SC, VA, WV
<i>doratus</i> (Frison)	IA, MI, PA, QB	<i>princeps</i> Banks	GA, NC, PA, SC, TN, VA
<i>elongatus</i> (Hagen)	AB, AZ, BC, CO, ID, MB, MT, NM, UT, WA, WY	<i>proteus</i> Newman	
<i>frontalis</i> (Newman)	LB, MB, ME, MI, MN, NF, NY, QB, SK, WI	<i>scotti</i> Ricker	

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