

Mayflies (Ephemeroptera) of the far western United States. Part I: Washington

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ABSTRACT

The mayfly fauna of Washington consists of 109 species in 38 genera among 12 families. Previous and new data (from 22 major collections) are given for all species and include new state records for 45 of the species, and the first published data for 57 species. In addition, 725 new county records involving 38 of the 39 state counties are given for 91 of the species.

INTRODUCTION

The earliest report of a mayfly from Washington (Washington Territory) was that of Hagen (1861) for what is now known as *Callibaetis ferrugineus hageni* Eaton. Reports of numerous other species from Washington by Hagen (1861) are all attributable to the District of Columbia. Over the past nearly 150 years, several other workers have contributed record data for mayfly species in Washington state, so that prior to the present study, there were some 64 valid nominal species known from there, although the vast majority were known from only one or very few sites. These previously known species do not include *Epeorus hesperus* (Banks), because the record of that species by Banks (1924) was for Pacoima, California (with Washington having been incorrectly associated with Pacoima). Most former records were published. Only the previous Washington records of *Acentrella insignificans* (McDunnough), *A. turbida* (McDunnough), *Epeorus albertae* (McDunnough), *E. deceptivus* (McDunnough), *E. grandis* (McDunnough), *E. longimanus* (Eaton), *Ephemerella verruca* Allen and Edmunds, *Ironodes nitidus* (Eaton), *Paraleptophlebia bicornuta* (McDunnough), *P. heteronea* (McDunnough), *P. memorialis* (Eaton) *Parameletus columbiae* McDunnough, *Rhithrogena hageni* Eaton, *R. morrisoni* (Banks), and *R. robusta* Dodds were reported in the grey literature (unpublished theses or state agency reports) (see below). We have confirmed all of these species in the state with new data, with the exception of *E. verruca* and *P. columbiae*. We have retained the latter two species in the accounting, however, because Washington is within their expected range, and they would not have been difficult to identify.

Based on our comprehensive identification and study of numerous collections and data (see below) over a five-year period, we herein add Washington record data for 45 previously unreported species (and add the first published record data for 57 species), bringing the total number of Washington species to 109. In addition, we add 725 new county records for 91 of these species. Mayflies were



Fig. 1. Washington state counties.

found in 426 named waterways (mostly streams) from all 37 inland counties, and one of the two small island counties in Washington.

Materials on which our records are based are housed at the following institutions or private collections, and are indicated in the new data given below by their parenthetical upper case acronyms as follows: Private collection of Arthur J. Frost, Port Angeles, WA (AF); private collection of Amy Hill, Conway, SC (AH); Monte L. Bean Life Science Museum, Brigham Young University, Provo, UT (BYU); California Academy of Sciences, San Francisco, CA (CAS); C. P. Gillette Museum, Colorado State University, Fort Collins, CO (CSU); Cornell University Arthropod Collection, Ithaca, NY (CUAC); Environmental Protection Agency, Corvallis, OR (EPA); Illinois Natural History Survey, Urbana, IL (INHS); Natural History Museum of Los Angeles County, Los Angeles, CA (LACM); BLM/Utah State University National Aquatic Monitoring Center, Logan, UT (MV); Oregon State University Arthropod Collection, Corvallis, OR (OSU); Purdue Entomological Research Collection, West Lafayette, IN (PERC); Oregon Department of Environmental Quality, Portland, OR (RH); private collection of Robert Newell, Polson, MT (RN); Washington Department of Ecology, Olympia, WA (RP); Sacramento State University, Sacramento, CA (SACS); Geological Survey Collection of Steve Fend, Menlo Park, CA (SF); Essig Museum of Entomology, Berkeley, CA (UCB); University of California, Santa Barbara, CA (UCSB); National Water Quality Laboratory, U.S. Geological Survey, Denver, CO (USGS); U. S. Environmental Protections Agency, Corvallis, OR (EPA); James Entomological Collection, Washington State University, Pullman, WA (WSU).

The style of data presentation is after McCafferty et al. (2003) and Gunther and McCafferty (2005). New data are based on larval mayflies, unless "A" for adults, or "A,L" for both adults and larvae, are appended to the collection data. Only sir names of collectors are given, when known. Records or listings unac-

accompanied by collection data are not recognized (see McCafferty 2000). In many cases, however, such previous records (e.g., Eaton 1885) have been confirmed by additional data published subsequently (e.g., McCafferty and Meyer (2007b) or herein.

FAUNISTIC DATA

Ameletidae

Ameletus andersoni Zloty

Previous data.—Zloty (1996): COWLITZ (Kalama Springs).

Ameletus celer McDunnough

New data.—COLUMBIA: North Fork Touchet R, 12-VI-1999 (RN); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 26-VII-1997, Lechleitner, A (CSU); WHATCOM: 9-IX-1997, Bottoms & Cunningham (AH).

Ameletus cooki McDunnough

Previous data.—Zloty (1996): SKAMANIA.

New data.—CHELAN: Rainbow Cr, North Cascades Natl Prk, 1-VIII-1995, Glesne (AH); YAKIMA: 1 mi W Tecton, Rimrock Lake, 12-VI-1973, Turner et al. (WSU), and Naches R, 1 mi S Cliffdell, 5-IX-1958, Edmunds & Allen (CAS).

Ameletus exquisitus Eaton

Previous data.—Zloty (1996): SKAMANIA.

Ameletus majusculus Zloty

Previous data.—Zloty (1996): PIERCE.

New data.—LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 28-V-1997, Kondratieff, and Paradise R, Mt Rainier Natl Prk, 16-VIII-1999, Kondratieff, A (PERC); PIERCE: Fryngpan Cr, Mt Rainier Natl Prk, 16-VIII-1999, Kondratieff, A, and Paradise R, Mt Rainier Natl Prk, 16-VIII-1999, Kondratieff & Lechleitner, A (CSU), and Nisqually R trib, Mt Rainier Natl Prk, 15-VI-1969, Baumann (PERC); WHATCOM: Thunder Cr, North Cascades Natl Prk, 25-IX-1995, Glesne & Zyskowski (AH).

Ameletus oregonensis McDunnough

New data.—KITTITAS: Manashtash Cr, Yakima R, 27-IV-1979, Butcher & Wetzel (INHS), and Naneum Cr, 8-XI-1990, Fend (SF); YAKIMA: Little Rattlesnake Cr, 30-X-1990, Fend (SF).

Ameletus pritchardi Zloty

New data.—CHELAN: Stevens Pass, 24-VI-1940, Ross & Ross (INHS); CLALLAM: Ennis Cr, Port Angeles, 4-IX-1958, Edmunds & Allen (CAS); JEFFERSON: Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (CAS); KITTITAS: Manashtash Cr, 27-IV-1979 Butcher & Wetzel (INHS); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 26-VII-1997, Lechleitner, A (CSU); PIERCE: Paradise R, Mt Rainier Natl Prk, 1-IX-1958, Edmunds & Allen (CAS); YAKIMA: Hall Cr, Hell's Crossing, 5-VII-1996 (RN).

Ameletus similior McDunnough

New data.—CLALLAM: Hurricane Ridge Rd, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (CAS); PIERCE: Nisqually R, Mt Rainier Natl Prk, 30-V-1997, Kondratieff (PERC); SPOKANE: Deadman Cr, Day-Mt Spokane Rd, Mt Spokane St Prk, 7-VII-1962, Edmunds (CAS), and Deadman Cr, Mt Spokane, 11-VII-1970, Edmunds (PERC); WHATCOM: Bagley Cr, Shuksan, 24-VII-1936, Ross (INHS), and Fisher Cr, North Cascades Natl Prk, 18-IX-1995, Glesne & Zyskowski (AH).

Ameletus sparsatus McDunnough

New data.—JEFFERSON: Quinalt R, Olympic Natl Prk, 21-VI-1978, Brigham (PERC); KITTITAS: Gold Cr, 2-XI-1990, Fend (SF); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936 (WSU); YAKIMA: Middle Fork Little Naches R, 5-XI-1990, Fend (SF), and Ticton R, 12-VI-1973, Corredor (WSU).

Ameletus suffusus McDunnough

New data.—JEFFERSON: Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (CAS).

Ameletus validus McDunnough

Previous data.—Zloty (1996): SKAGIT.

New data.—JEFFERSON: Hoh R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (CAS); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 27-IX-1997, Daporiak, A, and 26-VI-1996, Lechlietner, A (CSU), and Skate Cr, Packwood, 1-IX-1958, Edmunds & Allen (CAS); SKAGIT: Sauk R, 5-X-1940, Lambath, A (UCSB); WHATCOM: 9-X-1996, Glesne & Zyskowski (AH).

Ameletus vancouverensis McDunnough

New data.—COLUMBIA: Punjab Cr, 5-VII-1997 (RN); KLICKITAT: Badger Gulch Cr, 21-III-1998 (RN); YAKIMA: American R, 10-VIII-1996, and Hall Cr, Hell's Crossing, 5-VII-1996 (RN).

Ameletus velox Dodds

New data.—SPOKANE: Latah Cr, Spokane, 1-IV-1972 (WSU).

Ameletus vernalis McDunnough

Previous data.—Traver (1935): CHELAN (Blewett).

New data.—ASOTIN: Asotin Cr, 4-V-1937 (WSU); COLUMBIA: Tucannon R, Starbuck, 25-I-1998 (RN); KLICKITAT: Badger Gulch Cr, 1-III-1998, A (RN); WALLA WALLA: Walla Walla R, 23-I-1999 (RN); YAKIMA: Sadis Cr, 21-III-1998, A, and Yakima R, Rosa, 24-I-1998 (RN).

Ametropodidae

Ametropus ammophilus Allen and Edmunds

Previous data.—Allen and Edmunds (1976): WHATCOM (Nooksack R).

New data.—STEVENS: Deep Cr, 7-VIII-1996 (RP); WHATCOM: Nooksack R, Lynden, 26-V-1967, A (PERC).

Baetidae

Acentrella insignificans (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): CLALLAM (Dungeness R, South Branch Little R), KING (Bear Cr, Green R), KITSAP (Seabeck Cr), SKAGIT (Deer Cr, Diobsud Cr, Finney Cr, Jackman Cr, Samish R), SNOHOMISH (Grant Cr, Jim Cr, Long Cr).

New data.—ASOTIN: North Fork Asotin Cr, 18-VIII-1993 (RP); BENTON: Columbia R, 16-VII-1998, A, and Richland, 7-VII-1998, A (RN), and Yakima R, 16-VII-2003 (EPA); CHELAN: Wenatchee R, 11-VII-2002 (EPA); COLUMBIA: Cummings Cr, Wooten, 18-VIII-1993, and Tucannon R, Marengo, 18-VIII-1993, and Sand Dunes Stream (unnamed), 11-VIII-1993 (RP), and Touchet R, 3-VI-2000 (RN); GRANT: Lower Crab Cr, McManamon Rd, 11-VIII-1993 (RP), and Red Rock Coulee, Smyrna, 27-VIII-2003 (USGS); GRAYS HARBOR: 12-VII-1995 (RP); JEFFERSON: Hoh R, 9-VII-2003 (EPA); KING: Big Soos Cr, Auburn, 24-VIII-1998 (USGS); KITTITAS: Bear Cr, 12-X-1994, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 13-VIII-1993 (RP), and Milk Cr, 2 mi NW Cliffdale, 11-VI-1967, Baumann (PERC); KLUCKITAT: Rock Cr, 18-IV-1998, A (RN); LEWIS: Mineral Cr, 3-VII-2002 (EPA), and Ohanapecosh R, 27-VIII-1993 (RP); MASON: Vance Cr, 25-VIII-1997 (USGS); PACIFIC: 19-IX-1995 (RP); PIERCE: Elbe Site, 11-X-1993 (RP); SKAMANIA: Trapper Cr, 16-VIII-1993 (RP); SNOHOMISH: Canyon Cr, 4-IX-2001, and Catherine Cr, 16-IX-1997, and Pilchuck Cr, Hwy 9, 6-IX-2001 (RP), and South Fork Stillaguamish R, 14-VIII-2001 (EPA); SPOKANE: Dragoon Cr, 5-X-1994, and Hangman Cr, 11-VIII-2003, and Little Spokane R, 6-X-1994 (RP), and Little Spokane R, Milan, 25-VII-1962, Edmunds, A (PERC), and Spokane R, Greenacres, 29-VII-1999 (USGS); WAHKIAKUM: 24-VIII-1994 (RP); WHATCOM: Hutchinson Cr, 10-IX-1996, and Racehorse Cr, 10-IX-1996, and Whatcom Cr, Whatcom Falls, 11-IX-1998, and Nooksack R, Brennan, 18-IX-1996, and Nooksack R, N Cedarville, 6-IX-1996 (USGS); WHITMAN: Palouse R, Colfax, 26-VIII-1993, and Palouse R, Hooper, 16-IX-2003 (USGS); YAKIMA: Indian Cr, SR12, 23-IX-1993, and Rattlesnake Cr, 10-VIII-1993 (RP), and Naches R, 1 mi S Cliffdale, 5-IX-1958, Edmunds & Allen (PERC), and Satus Cr, Toppenish, 22-VIII-2003 (USGS), and Yakima R, 9-VII-2002 (EPA).

Acentrella turbida (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): SKAGIT (Diobsud Cr, Finney Cr, Jackman Cr).

New data.—BENTON: Yakima R, Kiona, 5-IX-1958, Edmunds & Allen (PERC); CHELAN: Icicle Cr, 5-IX-2001, and Wenatchee R, 10-VII-2003 (EPA); CLALLAM: Dungeness R, Hwy 101, 4-IX-1958, Edmunds & Allen (PERC), and Lyre R, 20-IX-1994 (RP); FERRY: Sanpoil R, 12-VIII-2003 (EPA); GRAYS HARBOR: East Fork Humptulips R, Twin Peak, 2-XI-1958, Edmunds & Allen (PERC), and Porter Cr, 8-IX-1999 (RP); JEFFERSON: Hoh R, 9-VII-2003 (EPA), and Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC); KING: Big Soos Cr, Auburn, 14-VIII-1996 (USGS), and Carey Cr, 17-VIII-1999, and Griffin Cr, Trestle, 13-IX-1999, and Little Bear Cr, 12-VIII-1999, and Newaukum Cr, 212th St, 3-IX-1997, and Swamp Cr, Bothel Way, 12-VIII-1999 (RP), and Taylor Cr, 22-VIII-1997 (USGS); KITTITAS: Umtanum Cr, 22-IX-2000 (USGS),

and Yakima R, Cle Elum, 2-XI-1990, Fend (SF); LEWIS: Mineral Cr, 3-VII-2002 (EPA), and Stillman Cr, Boistfort, 14-IX-2001 (RP); MASON: Skokomish R, Potlatch, 12-IX-1996, and Vance Cr, 25-VIII-1997 (USGS); OKANOGAN: Cecile Cr, 6-IX-1995, and Chewack R, 11-IX-1997, and Middle Fork Toats Coulee Cr, 8-IX-1995, and Sarsapkin Cr, 8-IX-1995, and South Fork Toats Coulee Cr, 5-IX-1995, and Twisp R, Poorman Cr Rd, 10-IX-1997 (RP), and Methow R, 23-IX-2003 (EPA); PACIFIC: Willapa R, 13-IX-2000 (EPA); PIERCE: Clearwater R, 5-IX-1997, and Huckleberry Cr, 5-IX-1997, and South Prairie Cr, Burnett, 9-III-1997 (RP); SKAGIT: Deer Cr, 1-IX-1998, and Higgins Cr, 3-IX-1998, and Jackman Cr, 13-IX-1995 (RP); Little Deer Cr, 9-IX-1998, Hill (AH), and North Fork Stillaguamish R, 26-VIII-1997 (USGS); SNOHOMISH: Canyon Cr, 4-IX-2001, and Deer Cr, 31-VII-2001, and Jim Cr, 20-VIII-2001, and North Fork Stillaguamish R, Hazel, 1-VIII-2001, and Pilchuck Cr, Hwy 9, 6-IX-2001, and Woods Cr, Calhoun Rd, 17-IX-1997, and Dan Cr, 17-VIII-2001, Rawhouser (AH), and South Fork Stillaguamish R, 14-VIII-2001 (EPA); SPOKANE: Peone Cr, Bruce Rd, 19-VI-1955, Allen (PERC); STEVENS: Big Sheep Cr, SR 25, 7-VIII-1996, and Deep Cr, 7-VIII-1996 (RP); WHATCOM: Baker R, 1-X-2001, and Clearwater Cr, 9-VIII-2001, Rawhouser, and Goodell Cr, North Cascades Natl Prk, 14-IX-2000, Hill (AH), and Hutchinson Cr, 10-IX-1996 (RP), and Nooksack R, N Cedarville, 6-IX-1996 (USGS); WHITMAN: Palouse R, Hooper, 23-VIII-1993 (USGS); YAKIMA: Ahtanum Cr, 27-IX-2000, and Toppenish Cr, 26-IX-2000 (USGS), and Naches R, Cliffdell, 6-XI-1990, Fend (SF), and Satus Cr, 22-VIII-2003, and Yakima R, 9-VII-2002 (EPA).

Baetis alius Day

New data.—CHELAN: Peshastin Cr, 18-VII-2002, and Scotty Cr, 22-VII-2003 (EPA).

Baetis bicaudatus Dodds

Previous data.—Baker and Hawkins (1990): SKAMANIA (Clearwater Cr); Patterson and Dickes (1994): THURSTON (Woodland Cr); Plotnikoff and Ehinger (1997): ASOTIN (North Fork Asotin Cr); CLALLAM (South Branch Little R), COLUMBIA (Cummings Cr, Tucannon R), GRANT (Sand Dune Cr), JEFFERSON (Duckabush R), KING (Cedar R, Covington Cr), KITTITAS (Middle Fork Teanaway R, Swauk R, Upper Yakima R, Umtanum Cr), LEWIS (Butler Cr, Ohanapecosh R, Simmons Cr), SKAGIT (Deer Cr, Diabsud Cr, Finney Cr, Illabot Cr, Jackman Cr), SNOHOMISH (Grant Cr, Long Cr, Portage Cr), WHITMAN (South Fork Palouse R, Upper Palouse R), YAKIMA (American R, Indian Cr, Little Naches R, Rattlesnake Cr); Plotnikoff (1998): CLALLAM (Littleton Cr, Kugel Cr, Bockman Cr).

New data.—BENTON: Columbia R, 15-VII-1998, Newell (RN), and Yakima R, Kiona, 5-IX-1958, Edmunds & Allen (PERC), and Bridge Cr, North Cascades Natl Prk, 10-IX-2001, Rawhouser, and McAlester Cr, North Cascades Natl Prk, 31-VIII-2000, Hill (AH), and Chiwawa R, 1-VIII-2002, and Foolhen Cr, 7-VIII-2002, and French Cr, 20-VIII-2002, and Indian Cr trib, 11-IX-2001, and Jack Cr, 31-VII-2001, and Leland Cr, 10-IX-2002, and Little Wenatchee R, 15-VIII-2001, and Nason Cr, 10-VII-2003, and Negro Cr trib, 23-VII-2003, and Panther Cr, 17-IX-2002, and Rainy Cr, 5-VII-2001, and Stevens Cr, 8-VII-2003, and White R, 16-VII-2002, and Whitepine Cr, 22-VIII-2002, and Chelan Boulder Cr, 20-VIII-

2003 (EPA), and Eightmile Cr trib, 29-V-1976, Hogue, and Icicle Cr trib, 29-V-1976, Hogue (LACM), and Park Cr, 19-IX-2001 (RP); CLALLAM: Boulder Cr, Olympic Natl Prk, 19-VI-1978, Brigham & Brigham, and Hurricane Ridge Rd, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and Lyre R, 20-IX-1994, and Siebert Cr, SR 101, 21-IX-1994 (RP); COLUMBIA: Cougar Cr, 6-VIII-2003 (EPA), and North Fork Touchet R, 4-IV-1998, and Wolf Fork Touche R, 4-IV-1998, Newell (RN); FERRY: Bracken Cr, 29-VIII-2000, and Nez Perce Cr, 2-X-2001 (EPA); JEFFERSON: Hoh R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC), and Rocky Br, 12-IX-2000 (EPA); KING: Green R, Lester, 27-VIII-1996 (USGS), and Hall Cr, Snoqualmie Pass, 26-V-1976, Hogue (LACM), and Lennox Cr, 8-VIII-2002 (EPA), and Newaukum Cr, Black Diamond, 21-VIII-1996 (USGS), and Silver Cr, 3-IX-1968, Koss (PERC); KITSAP: Seabeck Cr, 5-VIII-2002 (RP); KITTITAS: Bear Cr, 21-IX-1993, and Little Naches R, 20-IX-1993 (RP), and Cooper R, Copper Lake, 1-XI-1990, Fend (SF); MASON: North Fork Skokomish R, 24-IX-1996 (USGS); OKANOGAN: Cecile Cr, 6-IX-1995, and Huckleberry Cr, 8-VIII-1996, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 5-IX-1996, and Sarsapkin Cr, 8-IX-1995 (RP), and South Fork Toats Coulee Cr, 9-VIII-2001 (EPA); PEND OREILLE: Gypsy Cr, 29-VII-2003 (RP); PIERCE: Nisqually R, Longmine, 29-V-1997, Kondratieff (CSU), and Silver Cr, Silver Springs, Hwy 410, 11-VI-1967, Baumann, and White R, Mt Rainier Natl Prk, 3-IX-1968, Koss & Koss (PERC); SKAGIT: Kindy Cr, 20-IX-2000, and Marble Cr, 26-IX-2000, Hill (AH); Samish R, 15-IX-1995 (RP); SKAMANIA: Cultus Cr, 31-VIII-1958, and Lewis R, 31-VIII-1958, Edmunds & Allen (PERC); SNOHOMISH: Black Cr, 7-IX-2000, and North Fork Sauk R, 24-IX-2002 (EPA), and Dan Cr, 17-VIII-2001, Rawhouser, and Owl Cr, 9-IX-2000, Hill (AH); SPOKANE: Deadman Cr, Deadman Cr Rd, 7-VII-1962, Edmunds, and Deep Cr, Mt Spokane, 18-VI-1955, Allen (PERC); WALLA WALLA: Touchet R, 10-IX-2000, Newell (RN); WHATCOM: Bagley Cr, Shuksan, 24-VII-1936, Ross (INHS), and Breckenridge Cr, South Pass Rd, 12-IX-1996, and Chilliwack R, 15-IX-1999, and Goodell Cr, 12-IX-2000, and Happy Cr, 9-IX-2001, and Little Beaver Cr, 21-VIII-2001, and Racehorse Cr, 10-IX-1996, and Newhalem Cr, 11-IX-2000, and Thompson Cr, 16-IX-1996 (RP), and Canyon Cr, 7-VIII-1997, and Stetattle Cr, 8-VIII-1997 (USGS), and Little Chilliwack Camp, North Cascades Natl Prk, 16-IX-1999, Hill, and Thunder Cr, North Cascades Natl Prk, 31-X-1995, Glesne & Zyskowski (AH); YAKIMA: Crawford, 12-VII-2000, and Nelson Cr, 8-VIII-2001, and Shellneck Cr, 3-VII-2001 (EPA), and Crow Cr, 5-XI-1990, Fend (SF);

Baetis brunneicolor McDunnough

Previous data.—McCafferty and Meyer (2007a): LEWIS (Ohanapecosh R), PIERCE (White R).

Baetis flavistriga McDunnough

New data.—CLARK: Ellsworth, 13-I-1941, Jewett, A (INHS); COLUMBIA: Touchet R, 12-IX-2002 (RP); KITTITAS: Manashtash Cr, 9 mi WNW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS), and Middle Fork Teanaway R, 14-VIII-2002 (RP); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP); LEWIS: Centralia, 26-VII-1936, Ross, A (INHS); MASON: Skokomish R, Potlatch, 12-IX-1996 (USGS); PACIFIC: Willapa R, 13-IX-2000 (EPA); SKAGIT:

Little Deer Cr, 2-VIII-2001 (RP); SKAMANIA: Trapper Cr, 7-VIII-2002 (RP); SNOHOMISH: Deer Cr, 31-VII-2001 (RP); SPOKANE: California Cr, 13-VIII-2003, and Hangman Cr, Bradshaw Rd, 1-I-1997, and Marshall Cr, 13-VIII-2003, and Rattlers Run Cr, 1-I-1997, and Rock Cr, Jackson Rd, 1-I-1997 (RP); WHITMAN: Hangman Cr, Tekoa, 14-VIII-2003 (RP).

Baetis notos Allen and Murvosh

New data.—CHELAN: Mission Cr, 24-VII-2003, and Peshastin Cr, 18-VII-2002, and Scotty Cr, 22-VII-2003 (EPA).

Baetis tricaudatus Dodds

Previous data.—O’Laughlin (1988): STEVENS (Chamokane Cr); Baker and Hawkins (1990): SKAMANIA (Clearwater Cr); Patterson and Dickes (1994): THURSTON (Woodland Cr); Plotnikoff and Ehinger (1997): ASOTIN (North Fork Asotin Cr), CLALLAM (Dungeness R, Lyre R, Siebert Cr, South Branch Little R), COLUMBIA (Cummins Cr, Tucannon R), DOUGLAS (Douglas Cr), GRANT (Lower Crab Cr, Sand Dune Cr), JEFFERSON (Duckabush R), KING (Cedar R, Covington Cr, Green R, Taylor Cr), KITSAP (Seabeck Cr), KITTITAS (Gold Cr, Middle Fork Teanaway R, Swauk Cr, Upper Yakima R), LEWIS (Butler Cr, Ohanapecosh R, Simmons Cr), PIERCE (Elbe Site), SKAGIT (Deer Cr, Diobsud Cr, Finney Cr, Illabot Cr, Jackman Cr, Sammish R), SNOHOMISH (Grant Cr, Jim Cr, Long Cr, Portage Cr), SPOKANE (Little Spokane R), WHITMAN (South Fork Palouse R, Upper Palouse R), YAKIMA (Indian Cr, Little Naches R, Rattlesnake Cr); Plotnikoff (1998): CLALLAM (Bockman Cr, Kugel Cr, Littleton Cr); White and Johnson (1998): COWLITZ (Cameron Cr), WAHKIAKUM (Mill Cr); Dickes (1999): JEFFERSON (McDonald Cr, South Fork Fulton Cr).

New data.—ASOTIN: 17 mi S Anatone, 11-VI-1976, Turner, and Asotin Cr, 4 mi W Asotin, 18-III-1978, Zack, and Field’s Spring St Prk, 13-VI-1972, Turner, A, and Grande Ronde Canyon, 19-IV-1977, Phillips, A (WSU), and George Cr, 31-I-1998, Newell (RN); BENTON: Columbia R, 15-VII-1998, and Richland, 3-III-1998, A (RN), and Snipes Cr, McCreddie Rd, 28-IX-2000 (USGS), and Spring Cr, 11-XI-1990, Fend (SF), and Yakima R, 16-VII-2003 (EPA); CHELAN: Allen Cr, 18-IX-1996, and Entiat River, Entiat, 15-VIII-2002, and Park Cr, 19-IX-2001 (RP), and Beaver Cr, 24-VII-2001, and Box Cr, 19-IX-2002, and Chiwawa R, 1-VIII-2002, and Eagle Cr, 14-VIII-2003, and East Fork Mission Cr, 6-VIII-2002, and French Cr, 9-IX-2003, and Grouse Cr, 9-VII-2003, and Icicle Cr, 5-IX-2002, and Ingalls Cr, 1-VIII-2001, and Jack Cr, 31-VII-2001, and Lake Cr, 11-IX-2003, and Little Wenatchee R, 15-VIII-2001, and Minnow Cr, 26-VII-2001, and Mission Cr, 24-VII-2003, and North Shaser Cr, 19-VII-2001, and Nason Cr, 10-VII-2003, and Panther Cr, 17-IX-2002, and Peshastin Cr, 17-VII-2002, and Sand Cr, 2-VIII-2002, and Scotty Cr, 22-VII-2003, and Stevens Cr, 8-VII-2003, and Twentyfivemile Cr, 11-VII-2002, and Wenatchee R, 11-VII-2002, and White R, 11-VII-2003, and Whitepine Cr, 22-VIII-2002 (EPA), and Bridge Cr, North Cascades Natl Prk, 10-IX-2001, Rawhouser, and McAlester Cr, North Cascades Natl Prk, 31-VIII-2000, Hill (AH), and Chiwaulum Cr, 12 mi N Leavenworth, 12-VIII-1964, Edmunds, A (PERC), and Colockum Cr, Rock Island, 4-IX-2003 (USGS); CLALLAM Boundary Cr, 23-X-2002 (RP); Crescent Lake, 18-VI-1967, Baumann, and Elwha R, Elwha, 4-IX-1958, and Ennis Cr, Port Angeles, 4-IX-1958, and Hurricane Ridge Rd, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen

(PERC), and East Fork Dickey R, 10-VII-2001 (EPA); COLUMBIA Cougar Cr, 6-VIII-2003 (EPA), and Cummings Cr, Wooten, 6-X-2003 (RP), and North Fork Touchet R, 4-IV-1998, A, and Touchet R, 3-VI-2000 (RN); COWLITZ: South Fork Toutle R trib, 27-IX-2001 (EPA); DOUGLAS: East Foster Cr, Bell Butte Rd, Leahy, 3-IX-2003, and Rock Island Cr, Rock Island, 2-IX-2003 (USGS), and Foster Cr, Hwy 17, 15-VIII-2002, and Kettle R, Barstow, 30-VII-2003 (RP); FERRY: Nez Perce Cr, 17-VII-2001, and Ninemile Cr, 26-IX-2000, and Sanpoil R, 12-VIII-2003 (EPA), and North Fork Hall Cr, 31-VII-2003, and Sherman Cr, 30-VII-2003 (RP); FRANKLIN: Crab Cr, Morgan Lake Rd, Othello, 2-IX-1993, and Esquatzel Coulee, Sagemoor Rd, Pasco, 3-XI-1993 (USGS), and Charlie Cr, 3-X-2001 (EPA); GARFIELD: Snake R, 19-I-1986, Zack & Akre (WSU); GRANT: Crab Cr, Othello, 5-XI-1993, and Red Rock Coulee, Smyrna, 27-VIII-2003, and Sand Hollow Cr, 21-IX-1993 (USGS); GRAYS HARBOR: Appletree Cr, 8-IX-1999, and Cook Cr, 9-IX-1999, and Porter Cr, 8-IX-1999 (RP), and East Fork Humptulips R, 2-IX-1958, Edmunds & Allen (PERC), and Salmon R, 11-VII-2001 (EPA); JEFFERSON: Hoh R, 9-VII-2003, and Rocky Brook, 12-IX-2000, and Snahapish trib, 13-VIII-2002 (EPA), and Quinalt R, Olympic Natl Prk, 3-IX-1958, and Twin Cr, Hoh R Rd, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC), and Taft Cr, Olympic Natl Prk, 20-VI-1978, Brigham & Brigham, KING: Big Bear Cr, 14-IX-1999, and Big Soos Cr, 208th St, 4-IX-1997, and Carey Cr, 17-VIII-1999, and Cedar R, Cedar Falls, 8-IX-1999, and Covington Cr, 18-VIII-1999, and Griffin Cr, Trestle, 13-IX-1999, and Little Bear Cr, 12-VIII-1999, and McSorley Cr, Saltwater St Prk, 17-VIII-1999, and Newaukum Cr, 212th St, 3-IX-1997, and Pussyfoot Cr, 21-VII-2003, and Harris Cr, 13-IX-1999 (RP), and Green R, Lester, 31-VIII-1998, and Juanita Cr, 14-VIII-1997, and Rock Cr, 13-VIII-1997, and Swamp Cr, 19-VIII-1997, and Thornton Cr, Seattle, 19-VIII-1996 (USGS), and Intake Cr, 18-IX-2003, and Lennox Cr, 8-VIII-2002 (EPA), and White R, Greenwater, 3-IX-1968, Koss (PERC); KITSAP: Chico Cr, 19-VIII-1999, and Little Anderson Cr, 19-VIII-1999, and Seabeck Cr, 5-VIII-2002 (RP); KITTITAS: Bear Cr, 21-IX-1993 (RP); Badger Cr, 21-IX-2000, and Caribou Cr, 20-IX-2000, and Cherry Cr, 3-IX-2000, and Johnson Drain, 19-IX-2000, and Coleman Cr, 14-VIII-2003, and Park Cr, 20-IX-2000 (USGS), and Cle Elum R, 9-IX-1993, and Gladmar Pond, 12-IX-2002, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 25-VIII-2003, and North Fork Teanaway R, 14-VIII-2002, and Naneum Cr, 13-VIII-2002 Quartz Cr, 21-IX-1993, and Quilomene Cr, 2-VII-2002, and South Fork Manastash Cr, 21-IX-2000, and Squaw Cr, 10-VIII-1993, and Umtanum Cr, Durr Rd, 21-IX-2000, and West Fork Teanaway R, 14-VIII-2002, and Yakima R, 1-X-1993 (RP), and Manashtash Cr, 27-IV-1979, Butcher & Wetzel (INHS), and North Fork Wenas Cr, 13-VII-2000 (EPA); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP), and White Salmon R, Trout Lake, 31-VIII-1958, Edmunds & Allen (PERC); LEWIS: Johnson Cr, 3 mi W Packwood, 1-IX-1958, and Nickle Cr, Mt Rainier Natl Prk, 1-IX-1958, Edmunds & Allen (PERC), and Ohanapecosh R, 20-IX-2002, and Skookumchuck R, 17-X-2001, and Mineral Cr, 3-VII-2002, and Willame Cr, 7-VIII-2001 (EPA), and Stillman Cr, Boistfort, 27-IX-2000 (RP); LINCOLN: Crab Cr, Ritzville, 1-IX-1993 (USGS); MASON: Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and North Fork Skokomish R, 25-IX-1996, and Vance Cr, 25-VIII-1997 (USGS), and Tahuya R, 10-IX-1999, and Upper Tahuya R, 10-IX-1999 (RP); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936, (WSU), and

Bonaparte Cr, Tonasket, 9-IX-1997, and Cecile Cr, 6-IX-1995, and Chewack R, 11-IX-1997, and Huckleberry Cr, 8-VIII-1996, and Loup Loup Cr, 10-IX-1997, and North Fork Toats Coulee Cr, 5-IX-1996, and Salmon Cr, 5th Ave, 9-IX-1997, and Sarsapkin Cr, 11-IX-1996, and South Fork Salmon Cr, 9-IX-1997, and South Fork Toats Coulee Cr, 28-VIII-1997, and Twisp R, Poorman Cr Rd, 10-IX-1997 (RP), and Methow R, 23-IX-2003 (EPA); PACIFIC: Ellsworth Cr, 28-VIII-2002 (RP), and Sisson Cr, 20-IX-2000, and Willapa R, 13-IX-2000 (EPA); PEND OREILLE: North Fork Sullivan Cr, 6-VIII-1996 (RP), and Upper Slate Cr, 19-IX-2000 (RP). PIERCE: Chambers Cr, 18-IX-1997, and Clearwater R, 5-IX-1997, and Huckleberry Cr, 5-IX-1997, and Hylebos Cr, 16-VIII-1999, and South Prairie Cr, Burnett, 9-III-1997, and Twentyfivemile Cr, 18-IX-1997, and Wapato Cr, Freeman Rd, 4-IX-1997 (RP), and Deadwood Cr, Mt Rainier Natl Prk, 1-IX-1958, and Goat Cr, 5 mi E Ashford, 1-IX-1958, and White R, Mt Rainier Natl Prk, 1-IX-1958, Edmunds & Allen (PERC), and Leach Cr, 18-VIII-1997 (USGS), and Rushing Water Cr, 25-IX-2002, and Viola Cr, 12-VII-2001 (EPA); SKAGIT: Diobsud Cr, 29-IX-2003, and Little Deer Cr, 2-VIII-2001, and O'Toole Cr, 15-IX-1999, and Pressentin Cr, 9-IX-1998 (RP), and Marble Cr, 26-IX-2000, and Tenas Cr, 7-IX-1997, and Upper Kindy Cr, 20-IX-2000, Hill (AH), and North Fork Stillaguamish R, 26-VIII-1997 (USGS), and Oyster Cr, 23-VII-2002 (EPA); SKAMANIA: Bear Cr, Carson, 4-X-2000, and Trapper Cr, 16-VIII-1993 (RP), and Quartz Cr, 15-VIII-2002 (EPA); SNOHOMISH: Armstrong Cr, 4-IX-2001, and Canyon Cr, 4-IX-2001, and Catherine Cr, 16-IX-1997, and Deer Cr, 20-IX-1995, and Edgcomb Cr, 19-IX-1996, and Jim Cr, 14-IX-1999, and Little Pilchuck Cr, 16-IX-1997, and Middle Fork Quilceda Creek, 19-IX-1996, and Munson Cr, 18-IX-1996, and North Fork Stillaguamish R, Hazel, 1-VIII-2001, and Pilchuck Cr, Hwy 9, 6-IX-2001, and Portage Cr, 5-IX-2001, and Quilceda Cr, 20-IX-1996, and Woods Cr, Woods Cr Rd, 16-IX-1997 (RP), and Cultus Cr, 31-VIII-1958, Edmunds & Allen (PERC), and North Fork Sauk R, 24-IX-2002, and South Fork Stillaguamish R, 14-VIII-2001 (EPA), and Owl Cr, 9-IX-2000, Hill, and South Fork Sauk R, 15-VIII-2001, Rawhouser (AH); SPOKANE: Bald Knob Camp, Mt Spokane St Prk, 9/10-VII-1975, Turner, A, and Westbranch Rd, 2-IV-1972, Nishimura (WSU), and Deadman Cr, 28-VII-1996, Edmunds, and Dragoon Cr, Dalton's Rd, 26-VI-1955, Allen, and Hangman Cr, Spokane, 22-VII-1967, Edmunds, A, and Latah Cr, Spokane, 1-VIII-1967, and Mt Spokane, 15-VII-1963, Edmunds (PERC), and Spokane R, 30-VII-1999 (USGS); STEVENS: Big Sheep Cr, SR 25, 7-VIII-1996, and Chewelah Cr, 8-VIII-1996, and Colville R, 17-VII-2003, and Deep Cr, 7-VIII-1996, and Deer Cr, 17-VII-2003, and Kettle R, Barstow, 30-VII-2003, and Stensgar Cr, 17-VII-2003 (RP), and Springdale, 26-VII-1996, Edmunds (PERC); THURSTON: Monroe Cr, 8-IX-1999 (RP), and Nisqually R, Hwy 507, 15-VI-1967, Baumann (PERC); UNION: Lookinglass Cr, 19-VI-1999 (RN); WALLA WALLA: Touchet R, 10-IX-2000 (RN); WHATCOM: Austin Cr, 14-IX-2000, and Bacon Cr, 13-IX-2000, and Bertrand Cr, 10-IX-1998, and Breckenridge Cr, South Pass Rd, 12-IX-1996, and Chilliwack R, 15-IX-1999, and Chuckanut Cr, 15-IX-1999, and Deer Cr, 15-IX-1999, and Happy Cr, 9-IX-2001, and Hutchinson Cr, 10-IX-1996, and Lightning Cr, 9-IX-1999, and Newhalem Cr, 11-IX-2000, and Padden Cr, 12-IX-1996, and Smith Cr, 10-IX-1996, and Squalicum Cr, 11-IX-1996, and Sumas R, 12-IX-1996, and Thompson Cr, 16-IX-1996, and Whatcom Cr, Whatcom Falls, 11-IX-1998 (RP), and Bear Cr, North Cascades Natl Prk, 20-VIII-1998, Hill (AH), and Canyon Cr, 7-VIII-

1997, Fishtrap Cr, Lynden, 3-IX-1996, and Goodell Cr, 28-VIII-1997, and Kamm Cr, 27-VIII-1997 (USGS), and Nooksack R, 6-IX-2000 (EPA); WHITMAN: 5 mi S Pullman, 12-V-1973, Hansen, A, and 8 mi SW Colton, 15-III-1972, Lagier, and Almota, 23-IV-1955, Dill, and North Fork Palouse, Pullman, 14-V-1942, Benedicts, and Palouse Cr, 7-V-1942, Fisher, and Rock Lake, 1-V-1938, Knott, and Snake R, 6 mi NW Colton, 25-I-1986, Akre, and Steptoe Canyon, 26-II-1966, and Union Flat Cr, 25-III-1966, and Wawawai, 12-VI-1942, Shanefell (WSU), and Paradise Cr, Pullman, 18-VIII-1993, Pine Cr, Pine City, 30-VIII-1993, and Rebel Flat Cr, Winona, 20-VIII-1993 (USGS), and South Fork Palouse R, 16-VII-2003, and South Fork Palouse R, 19-VIII-1993 (RP); YAKIMA: Ahtanum Cr, 62nd Ave, 23-VIII-2002, and South Fork Tieton R, 28-IX-2000, and Wide Hollow Cr, 23-VIII-2002, and Terrace Heights Pond, 10-IX-2002 (RP), and American R, 5-IX-1958, and Naches R, 1 mi S Cliffdell, 5-IX-1958, Edmunds & Allen (PERC), and Columbia R, 28-XI-1951, Davis, A, and Black Canyon Cr, 26-VIII-2003, and Cowiche Cr, 20-VIII-2003, and Dry Cr, 22-VIII-2003, and Granger Drain, 25-IX-2000, and Satus Cr, 29-IX-2000, and Toppenish Cr, 26-IX-2000, and Wenas Cr, 18-VIII-2003, and Moxee Drain, 3-XI-2000 (USGS), and Cold Cr, 22-IV-2000, and Lmumma Cr, 22-IV-2000 (RN), and North Fork Wenas Cr, 2-XI-1990, Fend (SF), and Oak Cr, 20-VII-2000, and Yakima R, 9-VII-2002, and Brush Cr, 11-VII-2000 (EPA).

***Callibaetis ferrugineus* (Eaton)**

Previous data.—Hagen (1861) as *Baetis tessalata* Hagen: KING? (Puget Sound); Banks (1900) as *C. americanus* Banks and *C. tessellates* (Hagen): PIERCE (Tacoma), WHITMAN (Pullman).

New data.—ADAMS: 12 mi W Washtucna, 28-III-1978, Zack & Zack, and Othello, 30-VII-1965, Lewis (WSU); ASOTIN: 3 mi W Asotin, 11-III-1972, Turner, and Asotin Cr, 11-III-1972 (WSU), and Kennewick, 22-VIII-1957, Jewett, A (CAS); COLUMBIA: Blue Lake, 27-I-1974, and Tucannon R, 18-V-1974, Peng (WSU), and South Fork Touchet R, 21-IV-1948, Davis, A (PERC); FRANKLIN: 12 mi W Washtucna, 25-II-1978, Zack & Zack (WSU); GRANT: Lake Lemore, 10-VIII-1964, Ricker, A (PERC), and Migrane Lake, 5-IV-1986, Zack, and Soda Lake, 14-III-1977, Zack & Zack (WSU); KITTITAS: 2.8 mi SSE Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS); KLICKITAT: Klickitat Valley, Thorp's, 10-VII-1982, Henshaw (PERC); LEWIS: Reflection Lakes, Mt Rainier Natl Prk, 24-VIII-1973, Turner, A (WSU); OKANOGAN: Black Lake, 4-VII-1936, Edwards (WSU); PIERCE: Fort Lewis, 19-IV-1951, A (UCB), and Green Lake, Mt Rainier Natl Prk, 18-VII-1995, and Three Lakes, Mt Rainier Natl Prk, 9-VII-1997, Lechlietner (CSU), and Wapato Lake, Tacoma, 8-IV-1939, Elling (WSU); SAN JUAN False Bay Cr, San Juan Is, 18-V-1978, Baumann (BYU); U Deadman Cr, San Juan Island, 19-V-1978, Baumann (BYU); SKAMANIA: Spirit Lake, Mt St Helens, 30-VI-1985, Funk, A (PERC); SPOKANE: Colbert Twnshp, 15-VII-1955, Edmunds, A, and Spokane, 26-VII-1970, Edmunds, A (PERC), and Turnbill NWR, 23-IV-1977, Reichel, A (WSU); STEVENS: 5 mi NE Deer Lake, 11, 13-VII-1975, Turner, A (WSU), and Colville R, Arden, 17-VIII-1964, and Loon Lake, VI-1955, Edmunds, A, L (PERC); WALLA WALLA: Mill Cr, 26-II-1972, Lasier (WSU); WHITMAN: Kamiak Butte, 23-V-1957, Alvarado, and Palouse R, 4-IV-1936, and Pullman, 6-VII-1979, Reed, A, and Rock Cr, Ewan, 23-X-1948, and Rock Lake, 30-V-1949, and Uniontown Flats, 29-II-1966, and Wawawai, 3-IV-1955,

Dill (WSU); YAKIMA: Rimrock Lake, 12-VI-1973, Turner et al. (WSU), and Yakima R, 16-IX-1940, Lambuth, A (PERC).

Callibaetis fluctuans (Walsh)

New data.—ADAMS: 12 mi W Washtucna, 28-III-1978, Zack & Zack, and Chain Lake, Harder Ranch, 26-IV-1942 (WSU); BENTON: Columbia R, 24-VI-1998, A, and Richland, 24-VI-1998, A (RN), and Prosser, 16-VIII-1967, Gerber (WSU); CHELAN: Rainy Lake, 9-IV-1942, Andrews (WSU), and Wenatchee, 4-VIII-1958, Denning, A (PERC); GRANT: Soda Lake, 10-VI-1973, Turner et al., and Winchester Developmental Farm, 11-VIII-1951, Bacon (WSU); SPOKANE: Spokane, 1940, Gustafson (INHS); WHITMAN: Kamiak Butte, 25-V-1955, Coffey, and Lamont, 13-IV-1942, Shanefelt, and Pampa Pond, 3 mi SW LaCrosse, 28-III-1978, Zack & Zack, and Pullman, 15-II-1970, Saunders, and Steptoe Canyon, III-1966, Lewis (WSU); YAKIMA: Yakima, 26-IX-1928, A (CUAC).

Callibaetis pictus (Eaton)

New data.—BENTON: Richland, 22-VII-1998, A (RN); GRANT: Park Lake, 17-IX-2000, A (RN), and Soda Lake, 20-V-1976, Turner (WSU); WHITMAN: Albion, 12-X-1967, Shen, and Kamiak Butte, 25-V-1955, Dill, and Pullman, 10-V-1941, Peterson, A, and Lake Granite Dam, 6-V-1972, Nishimura, and Wawawai, 6-V-1972, Nishimura (WSU); YAKIMA: Yakima, 26-IX-1928, Leonard, A (CUAC).

Camelobaetidius warreni (Traver and Edmunds)

New data.—BENTON: Richland, 27-VII-2000, Newell, A (PERC), and Yakima R, 28-VII-1998, A (RN).

Centroptilum conturbatum McDunnough

New data.—KLUCKITAT: White Salmon R, Trout Lake, 31-VIII-1958, Edmunds & Allen, A (PERC); SPOKANE: Dragoon Cr, Deer Prk, 4-VIII-1962, A, and Latah Cr, Spokane, 1-VIII-1967, Edmunds (PERC).

Dipheter hageni (Eaton)

Previous data.—Moss et al. (1975) as *Baetis parvus* Dodds: KING (Ravenna Park); Plotnikoff and Ehinger (1997): KING (Covington Cr), LEWIS (Simmons Cr), PIERCE (Elbe Site); White and Johnson (1998): WAHIAKUM (Mill Cr); Dicks (1999): JEFFERSON (McDonald Cr, South Fork Fulton Cr).

New data.—ASOTIN: Field's Spring St Prk, 7-VI-1971, Turner et al., A (WSU); BENTON: Snipes Cr, 12-XI-1990, Fend (SF), and Yakima R, 3-XI-2002 (RP); CHELAN: Alder Cr, 25-IX-2001, and Beaver Cr, 24-VII-2001, and Chiwawa R, 14-VII-2003, and Eagle Cr, 14-VIII-2003, and Grouse Cr, 9-VII-2003, and Minnow Cr, 26-VII-2001, and Mission Cr, 24-VII-2003, and Mountaineer Cr trib, 30-VII-2003, and North Shaser Cr, 19-VII-2001, and Sand Cr, 2-VIII-2002, and Stevens Cr, 8-VII-2003, and Wenatchee R, 10-VII-2003 (EPA), and Colockum Cr, 4-IX-2003 (USGS); CLALLAM: Boundary Cr, 16-X-2002, and Dungeness R, 19-IX-1994, and South Branch Little R, 16-VII-2001 (RP), and East Fork Dickey R, 10-VII-2001 (EPA); COLUMBIA: Cummings Cr, Wooten, 6-X-2003, and Touchet R, 12-IX-2002 (RP); COWLITZ: South Fork Toutle R trib, 27-IX-2001 (EPA); DOUGLAS: Douglas Cr, Palisades, 3-IX-1993, and Rock Island Cr,

2-IX-2003 (USGS), and Kettle R, Barstow, 30-VII-2003 (RP); FERRY: Nez Perce Cr, 17-VII-2001, and Ninemile Cr, 26-IX-2000, and Sanpoil R, 12-VIII-2003 (EPA); GARFIELD: Charlie Cr, 3-X-2001 (EPA); GRAYS HARBOR: Appletree Cr, 11-IX-2000, and Cook Cr, 9-IX-1999, and Porter Cr, 8-IX-1999 (RP); JEFFERSON: Duckabush R, 19-IX-1994 (RP), and Rocky Br, 12-IX-2000, and Snahapish trib, 13-VIII-2002 (EPA); KING: Big Bear Cr, 14-IX-1999, and Big Soos Cr, 208th St, 4-IX-1997, and Covington Cr, 18-VIII-1999, and Griffin Cr, Trestle, 13-IX-1999, and Harris Cr, 13-IX-1999, and Newaukum Cr, 212th St, 3-IX-1997, and Pussyfoot Cr, 21-VII-2003, and Swamp Creek, Bothel Way, 12-VIII-1999 (RP), and Intake Cr, 2-VII-2003 (EPA); KITSAP: Chico Cr, 19-VIII-1999, and Seabeck Cr, 10-IX-1999 (RP). KITTITAS: Bear Cr, 12-X-1994, and Gladmar Pond, 12-IX-2002 (RP), and Middle Fork Teanaway R, 25-VIII-2003, and Naneum Cr, 13-VIII-2002, and North Fork Teanaway R, 14-VIII-2002, and Quilomene Cr, 2-VII-2002, and Squaw Cr, Canyon Rd, 10-VIII-1993, and Umtanum Cr, Durr Rd, 12-VIII-2002, and West Fork Teanaway R, 14-VIII-2002 (RP), and Coleman Cr, 14-VIII-2003, and Park Cr, 13-VIII-2003 (USGS), and Yakima R, 2-XI-1990, Fend (SF); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP), and White Salmon R, Trout Lake, 31-VIII-1958, Edmunds & Allen, A (PERC); LEWIS: Mineral Cr, 3-VII-2002 (EPA); LINCOLN: Crab Cr, Ritzville, 13-IX-1994 (USGS); MASON: Tahuya R, 10-IX-1999, and Upper Tahuya R, 10-IX-1999 (RP); OKANOGAN: Bonaparte Cr, Tonasket, 9-IX-1997, and South Fork Salmon Cr, 9-IX-1997 (RP); PACIFIC: Ellsworth Cr, 28-VIII-2002 (RP), and Sisson Cr, 20-IX-2000 (EPA); PIERCE: Clearwater R, 5-IX-1997, and Twentyfivemile Cr, 18-IX-1997 (RP), and Rushing Water Cr, 25-IX-2002 (EPA); SKAGIT: Childs Cr, 13-IX-1998, and Irene Cr, 19-IX-1998, and Muddy Cr, 13-IX-1998, Hill (AH), and O'Toole Cr, 15-IX-1999 (RP), and Oyster Cr, 23-VII-2002 (EPA); SKAMANIA: Bear Cr, Carson, 4-X-2000, and Trapper Cr, 11-IX-2001 (RP); SNOHOMISH: Armstrong Cr, 4-IX-2001, and Edgcomb Cr, 19-IX-1996, and Jim Cr, 20-VIII-2001, and Little Pilchuck Cr, 16-IX-1997, and Catherine Cr, 16-IX-1998, and Middle Fork Quilceda Cr, 19-IX-1996, and North Fork Stillaguamish R, 30-VII-2001, and Woods Cr, Woods Cr Rd, 13-IX-1999, Portage Cr, 5-IX-2001 (RP), and Dan Cr, 30-VIII-1998, and Lake Clear Cr, 28-VIII-1998, and Peek-A-Boo Cr, 28-VIII-1998, Hill (AH), and South Fork Stillaguamish R, 14-VIII-2001 (EPA); SPOKANE: California Cr, 13-VIII-2003, and Hangman Cr, Bradshaw Rd, 12-VIII-2003, and Marshall Cr, 13-VIII-2003, and Rattlers Run Cr, 12-VIII-2003, and Rock Cr, Jackson Rd, 14-VIII-2003 (RP), and Latah Cr, Spokane, 1-VIII-1967, A, and Mt Spokane, 15-VIII-1963, Edmunds (PERC); STEVENS: Colville R, 17-VII-2003, and Deep Cr, 7-VIII-1996, and Deer Cr, 17-VII-2003, and Kettle R, Barstow, 30-VII-2003, and Stensgar Cr, 17-VII-2003 (RP); WAHKIAKUM: West Fork Grays R trib, 8-VIII-2002 (RP); WALLA WALLA: Touchet R, Cummins Rd, 11-IX-2002 (RP); WHATCOM: Austin Cr, 30-IX-2003, and Bertrand Cr, 10-IX-1998, and Chuckanut Cr, 30-IX-2003, and Lightning Cr, 9-IX-1999 (RP), and Bald Eagle Cr, 27-IX-2000, and Happy Flats Cr, North Cascades Natl Prk, 9-VIII-2000, and Lightning Cr, North Cascades Natl Prk, 9-IX-1999, Hill (AH); WHITMAN: Hangman Cr, Tekoa, 14-VIII-2003, and Palouse R, Palouse, 16-VII-2003 (RP); YAKIMA: Ahtanum Cr, 62nd Ave, 23-VIII-2002, and Terrace Heights Pond, 10-IX-2002, and Yakima R, 4-IX-2002 (RP), and Brush Cr, 11-VII-2000, and Oak Cr, 20-VII-2000 (EPA),

and Dry Cr, 22-VIII-2003, and Satus Cr, 22-VIII-2003 (USGS), and Wenas Cr, 2-XI-1990, Fend (SF);

Fallceon quilleri (Dodds)

New data.—BENTON: Bettinson Rd, 26-VIII-2003, and Snipes Cr, 21-VIII-2003, and Spring Cr, 28-IX-2000 (USGS); COLUMBIA: Touchet R, 24-VIII-2000, A (RN); DOUGLAS: Douglas Cr, Palisades, 3-IX-1993, and Rock Island Cr, 9-II-2003 (USGS); FRANKLIN: Wahluke Br, 27-VIII-2003 (USGS); GRANT: Crab Cr, Morgan L, 12-IX-1994, and Lind Coulee, 20-IX-1993 (USGS); KITTITAS: Naneum Cr, Kittitas, 15-VIII-2003 (USGS); LINCOLN: Crab Cr, Ritzville, 1-IX-1993 (USGS); SPOKANE: Hangman Cr, 11-VIII-2003 (RP); WALLA WALLA: Touchet R, Cummins Rd, 11-IX-2002 (RP); WHITMAN: Palouse R, Colfax, 26-VIII-1993, and Rebel Flat Cr, Winona, 20-VIII-1993, and South Fork Palouse R, 19-VIII-1993, and Union Flat Cr, Lacrosse, 17-VIII-1993 (USGS); YAKIMA: Cowiche Cr, 20-VIII-2003, and Wenas Cr, Selah, 18-VIII-2003 (USGS).

Heterocloeon anoka (Daggy)

Previous data.—McCafferty and Meyer (2007a): BENTON (Amon Waste-way), SPOKANE (Little Spokane R).

Procloeon pennulatum (Eaton)

New data.—WHITMAN: Rock Lake, 20-IX-1934, Shallow (WSU).

Pseudocloeon apache (McCafferty and Waltz)

New data.—PIERCE: Tahoma Cr, Mt Rainier Natl Prk, 14-VI-1967, Baumann (PERC).

Pseudocloeon dardanum (McDunnough)

Previous data.—McCafferty and Meyer (2007a): JEFFERSON (Taft Cr).

Pseudocloeon propinquum (Walsh)

Previous data.—McCafferty and Meyer (2007a): KING (Big Soos Cr), LEWIS (Centralia).

Baetiscidae

Baetisca columbiana Edmunds

Previous data.—Edmunds (1960): FRANKLIN (Columbia R).

Caenidae

Caenis amica Hagen

Previous data.—Provonsha (1990): STEVENS (Loon Lake).

New data.—WHITMAN: North Fork Palouse R, Pullman, 14-V-1942, Benedictsa (WSU).

Caenis latipennis Banks

Previous data.—Banks (1907): WHITMAN (Pullman); Provonsha (1990): SPOKANE (Latah Cr), WHITMAN (Pullman).

New data.—ADAMS: Hallin Lake, 17-V-1942, Andrews (WSU); GRANT: Moses Lake, 23-V-1988, Frost, A (AF), and Soda Lake, 19-V-1984, Turner (WSU); WHITMAN: Pine Cr, Pine City Rd, 30-VIII-1993 (USGS).

Caenis youngi Roemhild

New data.—SAN JUAN: False Bay Cr, San Juan Island, 18-V-1978, Baumann (BYU); WHITMAN: Rock Lake, 30-IV-1949 (WSU).

Ephemerellidae

Attenella delantala (Mayo)

Previous data.—Allen and Edmunds (1961b): YAKIMA (Naches R); Martin (1976): JEFFERSON (Stequaleho Cr, West Fork Snahapish Cr).

New data.—CHELAN: Beaver Cr, 24-VII-2001, and Chiwawa R, 14-VII-2003, and Icicle Cr, 5-IX-2001, and Lake Cr, 11-IX-2003, and Little Wenatchee R, 12-IX-2002, and Nason Cr, 10-VII-2003, and White R, 11-VII-2003 (EPA), and Entiat R, Entiat, 15-VIII-2002 (RP); CLALLAM: Boundary Cr, 11-IX-2002, and Kalaloch Cr, 16-IX-2003, and South Branch Ellen Cr, 21-IX-2003 (MV), and Soleduck R, 0.5 mi W Sappho, 20-VI-1978, Brigham & Brigham (PERC); COWLITZ: South Fork Toutle R trib, 27-IX-2001 (EPA); GRAYS HARBOR: Salmon R, 11-VII-2001 (EPA); JEFFERSON: Middle Fork Salmon R, 11-VIII-2003 (MV); KING: Carey Cr, 21-VIII-2002, and Holder Cr, 21-VIII-2002 (MV), and Cedar R, Maple Valley, Hwy 169, 8-VIII-1967, Allen (CAS), and Green R, Lester, 27-VIII-1996, and Taylor Cr, 22-VIII-1997 (USGS), and Intake Cr, 2-VII-2003 (EPA); KITTITAS: Manashtash Cr, 9 mi WNW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS), and North Fork Wenas Cr, 13-VII-2000 (EPA), and Plum Cr, 9-VII-1987 (OSU); LEWIS: Mineral Cr, 3-VII-2002, and Skookumchuck R, 17-X-2001, and Willame Cr, 7-VIII-2001 (EPA); MASON: Danny Walker Cr, 2-VII-2002 (EPA), and North Fork Skokomish R, Hoodspout, 29-VIII-2002 (USGS); OKANOGAN: Cecile Cr, 6-IX-1995 (RP); PACIFIC: Willapa R, 13-IX-2000 (EPA); PIERCE: South Prairie Cr, Burnett, 9-III-1997 (RP); SKAGIT: Little Deer Cr, 9-IX-1998, Hill (AH); SNOHOMISH: Deer Cr, 31-VII-2001, and North Fork Stillaguamish R, Hazel, 1-VIII-2001, and Woods Cr, Woods Cr Rd, 13-IX-1999 (RP); THURSTON: Monroe Cr, 19-VIII-2002 (MV); WHATCOM: Chilliwack R, North Cascades Natl Prk, 15-IX-1999, and Little Chilliwack Camp, North Cascades Natl Prk, 16-IX-1999, and Newhalem Cr, North Cascades Natl Prk, 11-IX-2000, Hill (AH), and Hutchinson Cr, 10-IX-1996 (RP); YAKIMA: American R, Bumping R Rd, 24-VII-2002, and Rattlesnake Cr, 10-VIII-1993 (RP), and Brush Cr, 11-VII-2000 (EPA).

Attenella margarita (Needham)

Previous data.—Allen and Edmunds (1961b): GRAYS HARBOR (Humptulips R); SPOKANE (Little Spokane R), YAKIMA (Naches R); O'Laughlin (1988): STEVENS (Chamokane Cr); Plotnikoff and Ehinger (1997): ASOTIN (North Fork Asotin Cr), GRAYS HARBOR (Humptulips R), KING (Covington Cr), KITSAP (Seabeck Cr), KITTITAS (Gold Cr, Swauk Cr, Upper

Yakima R), LEWIS (Simmons Cr), SKAGIT (Diobsud Cr, Finney Cr, Illabot Cr, Jackman Cr, Samish R), SNOHOMISH (Grant Cr, Jim Cr, Long Cr), SPOKANE (Dragoon Cr), YAKIMA (American R, Little Naches R, Rattlesnake Cr).

New data.—BENTON: Yakima R, Umtanum Rd, 9-VIII-1993 (RP); CHELAN: Entiat R, Entiat, 15-VIII-2002 (RP); CLALLAM: Lyre R, 20-IX-1994, and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Cummings Cr, Wooten, 21-VIII-2002 (RP); FERRY: Kettle R, Barstow, 30-VII-2003 (RP); JEFFERSON: Duckabush R, 19-IX-1994 (RP); KITTITAS: Little Naches R, 20-IX-1993, and North Fork Teanaway R, 14-VIII-2002 (RP); OKANOGAN: Cecile Cr, 10-IX-1996, and Chewack R, 11-IX-1997, and Huckleberry Cr, 8-VIII-1996, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 7-IX-1995, and Sarsapkin Cr, 8-IX-1995, and South Fork Toats Coulee Cr, 5-IX-1995 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP); SKAGIT: Deer Cr, 20-IX-1995 (RP); SNOHOMISH: Deer Cr, 20-IX-1995, and Jim Cr, 3-VIII-2001 (RP), and South Fork Stillaguamish R, 14-VIII-2001 (EPA); SPOKANE: Deer Cr, Chattaroy, 19-VI-1955, Allen (PERC); STEVENS: Colville R, 17-VII-2003, and Deep Cr, 7-VIII-1996, and Kettle R, Barstow, 30-VII-2003 (RP); THURSTON: Monroe Cr, 8-IX-1998 (RP); WHATCOM: Breckenridge Cr, South Pass Rd, 12-IX-1996, and Hutchinson Cr, 10-IX-1996 (RP); YAKIMA: Indian Cr, SR 12, 23-IX-1993, and Terrace Heights Pond, 10-IX-2002, and Yakima R, 5-IX-2002 (RP).

Caudatella edmundsi (Allen)

Previous data.—McCafferty and Meyer (2007b): CHELAN (Wenatchee R), OKANOGAN (North Fork Toats Coulee Cr), SPOKANE (Deadman Cr), WHATCOM (Thompson Cr).

Caudatella heterocaudata (McDunnough)

New data.—CHELAN: Alder Cr, 25-IX-2001, and Chiwawa R, 14-VII-2003 (EPA), and Wenatchee R, Dryden, 12-VII-1964, Edmunds, A (PERC); COLUMBIA: North Fork Touchet R, 5-IX-2000, and Touchet R, 3-VI-2000 (RN); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 29-VII-1997, Lechleitner, A (CSU), and Simmons Cr, 11-X-1995 (RP); OKANOGAN: Cecile Cr, 28-VIII-1997, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 5-IX-1996, and South Fork Toats Coulee Cr, 28-VIII-1997 (RP); PIERCE: Ohanapecosh R, Mt Rainier Natl Prk, 23-VII-1996, Lechleitner, A (CSU).

Caudatella hystrix (Traver)

Previous data.—Allen and Edmunds (1961a): MASON (Hamma Hamma R); Carlson (1989): COLUMBIA (Meadow Cr, Tucannon R); Plotnikoff and Ehinger (1997): KING (Bear Cr, Covington Cr, Green R).

New data.—CHELAN: Chikamin Cr, 23-IX-2002 (MV), and Entiat R, 6-X-1993 (RP), and French Cr, 9-IX-2003, and Icicle Cr, 5-IX-2001, and Lake Cr, 11-IX-2003, and Stevens Cr, 8-VII-2003, and White R, 16-VII-2002 (EPA); CLALLAM: South Branch Little R, 1-X-2003 (RP); GARFIELD: Charlie Cr, 3-X-2001 (EPA); JEFFERSON: Big Quilcene R, 28-V-1968, Baumann & Miner (PERC), and Rocky Br, 12-IX-2000 (EPA); KING: Pratt R, 6-X-2003 (EPA); KITTITAS: Bear Cr, 12-X-1994, and Middle Fork Teanaway R, 13-VIII-1993, and Naneum Cr, 8-X-1993, and Quartz Cr, 21-IX-1993, and South Fork Manastash Cr, 21-IX-2000 (RP), and South Fork Taneum Cr, 4-XI-1990, Fend (SF); LEWIS:

Skookumchuck R, 17-X-2001 (EPA); OKANOGAN: Chewack R, 11-IX-1997, and Loup Loup Cr, 10-IX-1997, and Methow R, Mazama, 11-IX-1997, and South Fork Salmon Cr, 9-IX-1997, and Twisp R, W Buttermilk Cr Rd, 10-IX-1997 (RP); PIERCE: Emmons Glacier, Mt Rainier Natl Prk, 13-VII-1945 (INHS), and Huck-leberry Cr, 5-IX-1997, and South Prairie Cr, Burnett, 9-III-1997 (RP); SKAGIT: Irene Cr, 19-IX-1998, Hill, and Tenas Cr, 2-X-2001, Rawhouser (AH); SNOHOMISH: Downey Cr, 12-IX-1998, and Upper Clear Cr, 28-VIII-1998, Hill (AH), and Woods Cr, Woods Cr Rd, 16-IX-1997 (RP); WHATCOM: Hutchinson Cr, 10-IX-1996, and Thompson Cr, 16-IX-1996 (RP), and Middle Fork Nooksack R, 13-VII-1966, Vander May (CAS), and Nooksack R, 19-IX-1999, Hill, and Thunder Cr, North Cascades Natl Prk, 31-X-1995, Glesne & Zyskowski, and Wanlick Cr, 18-IX-1999, Hill (AH); YAKIMA: South Fork Tieton R, 28-IX-2000 (RP), and South Fork Little Naches R, 5-XI-1990, Fend (SF).

Caudatella jacobi (McDunnough)

New data.—CHELAN: Boulder Cr, 20-VIII-2003, and Rainy Cr, 5-VII-2001, and Stevens Cr, 8-VII-2003 (EPA); KING: Green R, Kanasket, 29-IX-1994 (RP); LEWIS: Simmons Cr, 13-IX-1993 (RP); OKANOGAN: Middle Fork Toats Coulee Cr, 8-IX-1995 (RP); PIERCE: Silver Cr, Silver Springs, Hwy 410, 2-VI-1967, Baumann (PERC); SKAGIT: Fisher Cr, North Cascades Natl Prk, 31-VIII-1995, Glesne & Zyskowski (AH); STEVENS: Chewelah Cr, 8-VIII-1996 (RP); WHATCOM: Middle Fork Nooksack R, 13-VII-1966, and Swamp Cr, 9-VIII-1966, Vander May (CAS); YAKIMA: Shellneck Cr, 3-VII-2001 (EPA).

Drunella coloradensis (Dodds)

Previous data.—Allen and Edmunds (1962): JEFFERSON (Quinalt R), SKAMANIA (Lewis R), SPOKANE (Little Spokane R); Plotnikoff and Ehinger (1997): LEWIS (Butler Cr, Ohanapecosh R).

New data.—ASOTIN: 14 mi S Asotin, Grande Ronde R trib, 15-IV-1978, Zack (WSU); CHELAN: Blewett, 10-VIII-1960, Edmunds (PERC); CLALLAM: Boulder Cr, Olympic Natl Prk, 19-VI-1978, Brigham & Brigham, and Ennis Cr, Port Angeles, 4-IX-1958, and Hurricane Ridge Rd, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and Boundary Cr, 11-IX-2002, and Kugel Cr, 17-IX-2001 (MV), and Morse Cr, 23-VII-2004, Frost (AF), and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Touchet R, 12-IX-2002 (RP); FERRY: 6 mi E Republic, 29-VII-1958 (PERC), and North Fork Hall Cr, 31-VII-2003, and Sherman Cr, 30-VII-2003 (RP), and Scatter Cr, 22-VII-2004 (MV), and Sweat Cr, 9 mi W Republic, 28-VII-1973, Turner & Corredor (WSU); GARFIELD: First Cr, 24-VII-2004, and Tucannon R, 20-VII-2004 (MV); JEFFERSON: Big Quilcene Cr, 3-IX-2003, and Little Quilcene Cr, 3-IX-2003, and Salmon R, 11-VIII-2003, and Snow Cr, 20-VIII-2003, and Dosewallips R, 21-VIII-2002 (MV); Duckabush R, 12-X-2000 (RP), and Taft Cr, Olympic Natl Prk, 20-VI-1978, Brigham & Brigham, and Hoh R, Olympic Natl Prk, 3-IX-1958, and Twin Cr, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC); KING: Green R, Kanasket, 29-IX-1994 (RP), and Silver Cr, 3-IX-1968, and White R, E Greenwater, 3-IX-1968, Koss (PERC), and Taylor Cr, 22-VIII-1997 (USGS); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KITTITAS: Manashtash Cr, 9 mi WSW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS), and Milk Cr, 2 mi NW Cliffdale, 11-VI-1967, Baumann (PERC); LEWIS: Nickel Cr, Mt Rainier Natl Prk, 1-IX-1958, and Skate

Cr, Packwood, 1-IX-1958, Edmunds & Allen (PERC); MASON: Bear Cr, 22-VIII-2002 (MV), and Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and North Fork Skokomish R, 25-IX-1996, and Skokomish R, Potlatch, 12-IX-1996 (USGS); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936 (WSU), and Benson Cr, 2-IX-2004, and Granite Cr, 23-VIII-2004 (MV), and Methow R, Mazama, 11-IX-1997 (RP); PEND OREILLE: Gypsy Cr, 29-VII-2003, and North Fork Sullivan Cr, 20-VIII-2002 (RP); PIERCE: White R, Mt Rainier Natl Prk, 1-IX-1958, Edmunds & Allen (PERC); SKAGIT: Diobsud Cr, 14-IX-2000, and Little Deer Cr, 2-VIII-2001 (RP), and Fisher Cr, North Cascades Natl Prk, 22-IX-1995, Glesne & Zyskowski, and Tenas Cr, 7-IX-1997, and Upper Illabot, 29-VIII-1998, Hill (AH), and Illabot Cr, 15-IX-2004 (MV); SKAMANIA: Trapper Cr, 7-VIII-2002 (RP); SNOHOMISH: Boulder Cr, Hwy 530, 31-VII-2001, and North Fork Stillaguamish R, Hazel, 1-VIII-2001 (RP), and Buck Cr, 5-IX-1998, and Circle Cr, 27-VIII-1998, and Downey Cr, 12-IX-1998, Hill (AH); SPOKANE: Deadman Cr, Deadman Cr Rd, 7-VII-1962, Edmunds, and Mt Spokane, 20-VI-1935, Clarke (PERC); STEVENS: Smackout Cr, 25-VII-2004 (MV), and Stensgar Cr, 17-VII-2003 (RP); WASHINGTON: Rush Cr, 8-VIII-2004 (MV); WHATCOM: Austin Cr, 11-VII-2002 (RP) Chilliwack R, 15-IX-1999, and Lightning Cr, 9-IX-1999, and Newhalem Cr, 11-IX-2000 (RP), and Bacon Cr, 6-IX-1998, and Wanlick Cr, 18-IX-1999, Hill (AH), and Goodell Cr, 28-VIII-1997, and Nooksack R, N Cedarville, 6-IX-1996, and Stetattle Cr, 8-VIII-1997 (USGS); YAKIMA: American R, Bumping R Rd, 24-VII-2002 (RP), and Rimrock Lake, 12-VI-1973, Turner, and Ticton R, 12-VI-1973, Corredor (WSU).

Drunella doddsii (Needham)

Previous data.—Needham (1927): PIERCE (Goat Cr); Allen and Edmunds (1962): KING (Tolt R), WHATCOM (Bagley Cr); Martin (1976): JEFFERSON (Christmas Cr, Shale Cr, Stequaleho Cr, West Fork Snahapish Cr); Hawkins (1986): CLARK (Kalama Springs); Carlson (1989): COLUMBIA (Tucannon R), GARFIELD (Meadow Cr); Plotnikoff and Ehinger (1997): JEFFERSON (Duckabush R), KING (Bear Cr, Cedar Cr, Cedar R, Covington Cr, Taylor Cr), KITTITAS (Gold Cr, Middle Fork Teanaway R, Swauk Cr), LEWIS (Butler Cr, Simmons Cr), PIERCE (Elbe Site), SKAGIT (Deer Cr, Diobsud Cr, Finney Cr, Illabot Cr), SKAMANIA (Trapper Cr), SNOHOMISH (Long Cr), YAKIMA (American R, Indian Cr, Little Naches R); White and Johnson (1998): WAHIAKUM (Mill Cr); Dicks (1999): JEFFERSON (South Fork Fulton Cr).

New data.—ASOTIN: Fields's Spring St Prk, 4 mi S Anatone, 7-VI-1978, Jackson (WSU); CHELAN: Boulder Cr, 20-VIII-2003, and Chiwawa R, 1-VIII-2002, and East Fork Mission Cr, 6-VIII-2002, and Foolhen Cr, 7-VIII-2002, and French Cr, 9-IX-2003, and Glacier Cr, 29-VIII-2001, and Grouse Cr, 9-VII-2003, and Icicle Cr, 5-IX-2001, and Indian Cr trib, 11-IX-2001, and Ingalls Cr, 1-VIII-2001, and Jack Cr, 31-VII-2001, and Lake Cr, 9-X-2002, and Leland Cr, 10-IX-2002, and Little Giant Cr trib, 8-X-2002, and Little Wenatchee R, 15-VIII-2001, and Meadow Cr, 1-X-2003, and Minnow Cr, 26-VII-2001, and Mission Cr, 24-VII-2003, and Mountaineer Cr trib, 30-VII-2003, and Nason Cr, 10-VII-2003, and North Shaser Cr, 19-VII-2001, and Panther Cr, 17-IX-2002, and Peshastin Cr, 17-VII-2002, and Rainy Cr, 5-VII-2001, and Scotty Cr, 22-VII-2003, and Rock Cr trib, 6-IX-2001, and Twentyfivemile Cr, 11-VII-2002, and White R, 16-

VII-2002, and Whitepine Cr, 22-VIII-2002, and Box Cr, 19-IX-2002 (EPA), and Chikamin Cr, 23-IX-2002 (MV), and Entiat R, 6-X-1993, and Park Cr, 19-IX-2001, and South Fork Bridge Cr, 12-IX-2001, and McAllister Cr, 26-IX-2001 (RP), and Fourmile Cr, North Cascades Natl Prk, 1-VIII-1995, and Rainbow Cr, North Cascades Natl Prk, 2-VIII-1995, Glesne & Zyskowski (AH), and Wenatchee, 6-VII-1929, Leonard, A (CUAC); CLALLAM: Boundary Cr, 16-X-2002, and Dungeness R, 19-IX-1994, and South Branch Little R, 20-IX-1994 (RP), and Cook Cr, 24-VIII-2004, and Cool Cr, 24-VIII-2004, and Jimmy Come Lately Cr, 21-VIII-2002, and Deep Lake Cr, 27-VIII-2003, and Mud Cr, 11-IX-2003, and South Branch Ellen Cr, 21-IX-2003, and South Fork Soleduck Cr, 25-VIII-2001, and Steamboat Cr, 9-IX-2003, and Upper Deep Cr, 27-VIII-2003 (MV), and Cougar Cr, Olympic Natl Prk, 19-VI-1978, Brigham, and Eagle Pt, Olympic Natl Prk, 4-IX-1958, and Hurricane Ridge Rd, Olympic Natl Prk, 4-IX-1958, Edmunds and Allen (PERC), and Lake Sutherland, S Shore Rd, 6-VI-1989, and Morse Cr, 2 mi E Port Angeles, 23-VII-2004, and Salt Cr, 1 mi E Joyce, 7-V-1988, Frost (AF); COLUMBIA: Cougar Cr, 6-VIII-2003 (EPA), and Punjab Cr, 5-VII-1997, and Wolf Fork Touche R, 21-II-1998 (RN); COWLITZ: South Fork Toutle R trib, 27-IX-2001 (EPA); FERRY: Bracken Cr, 29-VIII-2000, and Sanpoil R, 12-VIII-2003, and Nez Perce Cr, 17-VII-2001 (EPA), and North Fork Hall Cr, 31-VII-2003 (RP), and Scatter Cr, 22-VII-2004 (MV); GARFIELD: Charlie Cr, 3-X-2001 (EPA), and Tucannon R, 20-VII-2004 (MV); GRAYS HARBOR: Appletree Cr, 8-IX-1999 (RP), and Boulder Cr, 30-VIII-2004, and McCalla Cr, 30-VIII-2004, and Porter Cr, 19-VIII-2002 (MV), and East Fork Humptulips R, 2-IX-1958, and West Fork Hoquiam R, 3 mi N New London, 2-IX-1958, Edmunds & Allen (PERC), and Salmon R, 11-VII-2001 (EPA); JEFFERSON: Big Quilcene Cr, 3-IX-2003, and Little Quilcene Cr, 3-IX-2003, and Matheny Cr, 16-IX-2003, and Middle Fork Matheny Cr, 16-IX-2003, and Salmon R, 11-VIII-2003, and Snow Cr, 20-VIII-2003, and Dosewallips R, 21-VIII-2002 (MV), and Duckabush R, 15-VIII-2001 (RP), and Hoh R, 9-VII-2003, and Rocky Brook, 12-IX-2000, and Snahapish trib, 13-VIII-2002 (EPA), and North Fork Quinalt R, Olympic Natl Prk, 3-IX-1958, and Twin Cr, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen, and Taft Cr, Olympic Natl Prk, 20-VI-1978, Brigham & Brigham (PERC); KING: Bear Cr, 12-VIII-1999, and Cedar R, Cedar Falls, 8-IX-1999, and Griffin Cr, Trestle, 8-IX-1998, and Harris Cr, 13-IX-1999, and Holder Cr, Hobart, 20-VIII-1998, and Newaukum Cr, 212th St, 3-IX-1997, and Pussyfoot Cr, 22-VII-2003 (RP), and Big Soos Cr, Auburn, 14-VIII-1996, and Green R, Lester, 27-VIII-1996, and Intake Cr, 21-VIII-1997 (USGS), and Carey Cr, 21-VIII-2002, and North Fork Newaukum Cr, 21-X-2002, and Covington Cr, 21-VIII-2002 (MV), and Green Water R, Greenwater, 2-VI-1967, Baumann, and Silver Cr, 3-IX-1968, and White R, E Greenwater, 3-IX-1968, Koss (PERC), and Hall Cr, Snoqualmie Pass, 26-V-1976, Hogue (LACM), and Lennox Cr, 8-VIII-2002, and Pratt R, 6-X-2003 (EPA); KITTITAS: Bear Cr, 12-X-1994, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 25-VIII-2003, and North Fork Teanaway R, 14-VIII-2002, and Naneum Cr, 13-VIII-2002, and Quartz Cr, 21-IX-1993, and South Fork Manastash Cr, 21-IX-2000, and West Fork Teanaway R, 14-VIII-2002 (RP), and Cabin Cr, 1-XI-1990, Fend (SF), and Lake Kachess, 30-V-1976, Hogue (LACM), and Manastash Cr, 27-IV-1979, Butcher & Wetzel (INHS), and North Fork Wenas Cr, 13-VII-2000 (EPA), and Plum Cr, 9-VII-1987 (OSU); KLUCKITAT: Little Klickitat R, Hwy 97, 16-VIII-1993 (RP); LEWIS: Johnson

Cr, 1-IX-1958, and Nickle Cr, Mt Rainier Natl Prk, 1-IX-1958, and Skate Cr, Packwood, 1-IX-1958, Edmunds & Allen (PERC), and Mineral Cr, 3-VII-2002, Ohanapecosh R, 20-IX-2002, and Skookumchuck R, 17-X-2001, and Willame Cr, 7-VIII-2001 (EPA), and North Fork Newaukum R, 17-VIII-1998 (RP); MASON: Cedar Cr, 22-VIII-2002 (MV), and Danny Walker Cr, 2-VII-2002 (EPA), and Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and North Fork Skokomish R, 24-IX-1996 (USGS); OKANOGAN: Beaver Cr, 21-IV-2004, and Granite Cr, 23-VIII-2004, and Lake Methow R, 25-IX-2004, and Okanogan Cr, 1-IX-2004, and Toats Coulee Cr, 31-VIII-2004 (MV), and Cecile Cr, 10-IX-1996, and Chewack R, 11-IX-1997, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 7-IX-1995, and Sarsapkin Cr, 11-IX-1996, and South Fork Salmon Cr, 9-IX-1997, and Twisp R, Poorman Cr Rd, 10-IX-1997 (RP), and South Fork Toats Coulee Cr, 30-VIII-2000 (EPA); PACIFIC: Ellsworth Cr, 12-IX-2001 (RP); PEND OREILLE: Gypsy Cr, 29-VII-2003, and North Fork Sullivan Cr, 6-VIII-1996, and Upper Slate Cr, 19-IX-2000 (RP); PIERCE: Clearwater R, 5-IX-1997, and South Prairie Cr, Burnett, 9-III-1997, and Huckleberry Cr, 5-IX-1997 (RP), and Emmons Glacier, Mt Rainier Natl Prk, 13-VII-1945 (INHS), and Greenwater R, Greenwater, 5-IX-1958, and Slippery Cr, Greenwater, 5-IX-1958, Edmunds & Allen, and Silver Cr, Hwy 410, 11-VI-1967, Baumann (PERC), and Rushing Water Cr, 25-IX-2002, and Viola Cr, 12-VII-2001 (EPA); SKAGIT: Arrow Cr, 29-VIII-1998, and Lake Bacon Cr, 6-IX-1998, and Tenas Cr, 7-IX-1997, Hill (AH), and Diobsud Cr, 19-VIII-2002, Little Deer Cr, 2-VIII-2001, and Marble Cr, 26-IX-2000, and Presentin Cr, 9-IX-1998 (RP), and Illabot Cr, 14-IX-2004, and O'Toole Cr, 10-IX-2002 (MV), and Oyster Cr, 23-VII-2002 (EPA); SKAMANIA: Bear Cr, Carson, 4-X-2000, and Trapper Cr, 14-X-2003 (RP), and Lewis R, Mt Adams, 31-VIII-1958, Edmunds & Allen (PERC), and Quartz Cr, 15-VIII-2002 (EPA), and Wind R, 14 mi W Carson, 6-IV-1972, DLC (WSU); SNOHOMISH: Black Cr, 7-IX-2000 (EPA), and Circle Cr, 27-VIII-1998, and Buck Cr, 5-IX-1998, and Upper Clear Cr, 28-VIII-1998, Hill (AH), and Deer Cr, 20-IX-1995, and Boulder Cr, Hwy 530, 31-VII-2001, and Canyon Cr, 4-IX-2001, and Woods Cr, Woods Cr Rd, 8-IX-1998, and Jim Cr, 20-VIII-2001, and Middle Fork Quilceda Cr, 19-IX-1996, and North Fork Stillaguamish R, Hazel, 1-VIII-2001 (RP), and North Fork Sauk R, 24-IX-2002 (EPA); SPOKANE: Deadman Cr, Day-Mt Spokane Rd, 7-VII-1962, Edmunds (PERC); STEVENS: Big Sheep Cr, SR 25, 7-VIII-1996 (RP), and Smackout Cr, 25-VII-2004 (MV); THURSTON: Monroe Cr, 19-VIII-2002 (MV); UNION: Lookinglass Cr, 19-VI-1999 (RN); WASHINGTON: Pataha Cr, 21-VII-2004, and Rush Cr, 8-VIII-2004 (MV); WHATCOM: Austin Cr, 11-VII-2002, and Breckenridge Cr, South Pass Rd, 12-IX-1996, and Chilliwack R, 15-IX-1999, and Chuckanut Cr, 30-IX-2003, and Happy Cr, 9-IX-2001, and Hutchinson Cr, 10-IX-1996, and Lightning Cr, 9-IX-1999, and Little Beaver Cr, 21-VIII-2001, and Newhalem Cr, 11-IX-2000, and Thompson Cr, 16-IX-1996 (RP), and Bacon Cr, 6-IX-1998, Hill, and Thunder Cr, North Cascades Natl Prk, 31-X-1995, Glesne & Zyskowski (AH), and Canyon Cr, 7-VIII-1997, and Goodell Cr, 28-VIII-1997, and Nooksack R, N Cedarville, 6-IX-1996, and Stetattle Cr, 8-VIII-1997 (USGS), and Razorhone Cr, Shuksan, 24-VII-1936, Ross (INHS); WHITMAN: Palouse R, Hooper, 10-VIII-1995 (USGS); YAKIMA: American R, Hells Crossing, 29-IX-2000, and South Fork Tieton R, 28-IX-2000 (RP), and Crawford, 12-VII-2000, and Nelson Cr, 8-VIII-2001, and Oak Cr, 20-VII-2000, and Shellneck Cr, 3-VII-

2001 (EPA), and Little Noches R, 29-X-1987 (OSU), and Little Rattlesnake Cr, 15-VII-1935 (WSU), and South Fork Little Naches R, 5-XI-1990, Fend (SF).

Drunella flavilinea (McDunnough)

Previous data.—Allen and Edmunds (1962): KING (Green R), SPOKANE (Little Spokane R), STEVENS (Springdale Cr); Martin (1976): JEFFERSON (Christmas Cr, Stequaleho Cr, Shale Cr, West Fork Snahapish Cr); O’Laughlin (1988): STEVENS (Chamokane Cr).

New data.—CHELAN: Cashmere, 10-VIII-1960, and Wenatchee R, Dryden, 12-VII-1964, Edmunds (PERC); CLALLAM: Morse Cr, 2 mi E Port Angeles, 23-VII-2004, Frost (AF), and Soleduck R, W Sappho, 20-VI-1978, Brigham & Brigham (PERC); COLUMBIA: Touchet R, 3-VI-2000 (RN); JEFFERSON: Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC); OKANOGAN: Beaver Cr, 21-IV-2004, and Methow R, 26-IV-2004 (MV), and Cecile Cr, 10-IX-1996, and North Fork Toats Coulee Cr, 7-IX-1995, and South Fork Toats Coulee Cr, 5-IX-1995 (RP); PIERCE: Marshal R, Hwy 7, 14-VI-1967, Baumann (PERC); STEVENS: Chewelah Cr, 8-VIII-1996 (RP); YAKIMA: Rattlesnake Cr, 10-VIII-1993 (RP).

Drunella grandis (Eaton)

Previous data.—Allen and Edmunds (1962): CLALLUM (Dungeness R), JEFFERSON (Hoh R), KING (Beckler R, Green R, Tyee R), KITSAP (Big Quilcene R), PIERCE (Goat Cr), SNOHOMISH (Skykomish R), SPOKANE (Little Spokane R), WHITMAN (Pullman); O’Laughlin (1988): STEVENS (Chamokane Cr); Plotnikoff and Ehinger (1997): KING (Bear Cr); Kohler (1998): SPOKANE (Liberty Cr, Thompson Cr).

New data.—ASOTIN: 3 mi W Asotin, 11-III-1972, Turner, and Asotin Cr, 13-IV-1940, Nelson, and South Fork Asotin Cr, 20-IV-1986, Zack & Zack (WSU), and George Cr, 31-I-1998 (RN); CHELAN: Chiwawa R, 1-VIII-2002, and French Cr, 9-IX-2003 and Icicle Cr, 5-IX-2001, and Lake Cr, 11-IX-2003, and Wenatchee R, 11-VII-2002, and White R, 11-VII-2003, and Eagle Cr, 14-VIII-2003 (EPA), and Entiat R, Entiat, 15-VIII-2002 (RP); CLALLAM: East Fork Dickey R, 10-VII-2001 (EPA), and Morse Cr, 2 mi E Port Angeles, 20-VI-2004, Frost (AF); COLUMBIA: Cummings Cr, Wooten, 20-IX-2000 (RP), and Dayton, 24-V-1957, Alvarado, and Tucannon R, 22-III-1986, Zack & Zack (WSU), and Punjab Cr, 5-VII-1997, and Touchet R, 3-V-1999 (RN); FERRY: Sanpoil R, 12-VIII-2003 (EPA); KING: Green R, Lester, 31-VIII-1998, and Newaukum Cr, Black Diamond, 22-VIII-1996 (USGS), and Intake Cr, 18-IX-2003 (EPA), and Silver Cr, 3-IX-1968, Koss (PERC); KITTITAS: Bear Cr, 21-IX-1993, and West Fork Teanaway R, 14-VIII-2002, and Middle Fork Teanaway R, 22-IX-2000 (RP), and Cabin Cr, 1-XI-1990, Fend (SF), and Manashtash Cr, 27-IV-1979, Butcher & Wetzel (INHS), North Fork Wenas Cr, 13-VII-2000 (EPA), and Yakima R, Hwy 90, Cle Elum, 6-V-1982, Baumann & Smith (BYU); LEWIS: Mineral Cr, 3-VII-2002, and Ohanapecosh R, 20-IX-2002 (EPA), and Simmons Cr, 11-X-1995 (RP); MASON: North Fork Skokomish R, 29-VIII-1997 (USGS); OKANOGAN: Cecile Cr, 6-IX-1995, and Middle Fork Toats Coulee Cr, 7,8-IX-1995, and Sarsapkin Cr, 8-IX-1995, and South Fork Toats Coulee Cr, 5-IX-1995 (RP), and Methow R, 23-IX-2003 (EPA); PEND OREILLE: Middle Cr, 21 mi S Ione, 5-IV-1972, Nishimura (WSU); PIERCE: Greenwater R, Greenwater, 5-IX-1958, Edmunds & Allen

(PERC), and Viola Cr, 12-VII-2001 (EPA); SKAGIT: Bacon Cr, 13-VII-1986, Courtney, A (PERC); SKAMANIA: Little Soda Springs, 6-IV-1972, (WSU), and Trapper Cr, 7-VIII-2002 (RP); SNOHOMISH: North Fork Sauk R, 24-IX-2002 (EPA); STEVENS: Deer Cr, 17-VII-2003, and Stensgar Cr, 17-VII-2003 (RP); UNION: Lookinglass Cr, 19-VI-1999 (RN); WALLA WALLA: Mill Cr, 26-II-1972, Lasier (WSU); WHATCOM: Baker R, 1-X-2001, Rawhouser (AH), and Nooksack R, 6-IX-2000 (EPA), and Thompson Cr, 16-IX-1996 (RP); WHITMAN: North Fork Palouse R, 26-IX-1948, and Rock Lake, 19-IV-1949 (WSU); YAKIMA: Ahtanum Cr, 62nd St, 27-IX-2000 (USGS), and American R, Hells Crossing, 29-IX-2000, and Oak Cr, 28-IX-2000, and South Fork Tieton R, 28-IX-2000 (RP), and Little Noches R, 29-X-1987 (OSU), and Wenas Cr, 2-XI-1990, Fend (SF), and Yakima R, 13-XII-1997 (RN).

Drunella pelosa (Mayo)

Previous data.—Allen and Edmunds (1962): KING (Green R).

New data.—OKANOGAN: Beaver Cr, 21-IV-2004 (MV); PIERCE: Mashel R, Hwy 7, 14-VI-1967, Baumann (PERC).

Drunella spinifera (Needham)

Previous data.—Allen and Edmunds (1962): FERRY (nr Republic); Carlson (1989): COLUMBIA (Tucannon R), GARFIELD (Meadow Cr); Plotnikoff and Ehinger (1997): KITTITAS (Middle Fork Teanaway R, Upper Yakima R), SKAGIT (Illabot Cr), YAKIMA (Little Naches R).

New data.—BENTON: Yakima R, Umtnanum Rd, 9-VIII-1993 (RP); CHELAN: Beaver Cr, 24-VII-2001, and Chiwawa R, 14-VII-2003, and East Fork Mission Cr, 6-VIII-2002, and French Cr, 9-IX-2003, and Grouse Cr, 9-VII-2003, and Indian Cr trib, 11-IX-2001, and Ingalls Cr, 1-VIII-2001, and Lake Cr, 11-IX-2003, and Leland Cr, 10-IX-2002, and Minnow Cr, 26-VII-2001, and Nason Cr trib, 28-VIII-2002, and North Shaser Cr, 19-VII-2001, and Panther Cr, 19-IX-2002, and Rainy Cr, 5-VII-2001, and Sand Cr, 2-VIII-2002, and Scotty Cr, 22-VII-2003, and Stevens Cr, 8-VII-2003, and Twentyfivemile Cr, 11-VII-2002, and White R, 16-VII-2002 (EPA), and Blewett, 10-VIII-1960, Edmunds, and Wenatchee R, Drydan, 9-VII-1986, Alstad, A (PERC), and Boulder Cr, North Cascades Natl Prk, 3-VIII-1995, and Fourmile Cr, North Cascades Natl Prk, 1-VIII-1995, and Rainbow Cr, North Cascades Natl Prk, 2-VIII-1995, Glesne & Zyskowski (AH), and Chikamin Cr, 23-IX-2002 (MV); CLALLAM: Boulder Cr, Olympic Natl Prk, 19-VI-1978, and Ennis Cr trib, 19-VI-1978, and Indian Cr, 18-VI-1978, and Soleduck R, W Sappho, 20-VI-1978, Brigham & Brigham (PERC), and Ellen Cr, 18-IX-2003, and Lake Deep Cr, 27-VIII-2003, and Mud Cr, 11-IX-2003 (MV), and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Cougar Cr, 6-VIII-2003 (EPA), and Umatilla R, 8-VI-1978, Zack & Turner (WSU); COWLITZ: South Fork Toutle R trib, 27-IX-2001 (EPA); FERRY: North Fork Hall Cr, 31-VII-2003 (RP), and Nez Perce Cr, 17-VII-2001 (EPA), and North Fork Hall Cr, 22-VIII-2004, and Scatter Cr, 22-VII-2004, and Sherman Cr, 23-VII-2004 (MV); GARFIELD: Charlie Cr, 3-X-2001 (EPA); GRAYS HARBOR: Boulder Cr, 30-VIII-2004 (MV); JEFFERSON: Big Cr, 6 mi NE Quinault, 21-VI-1978, and Cannings Cr, Olympic Natl Prk, 21-VI-1978, Brigham & Brigham (PERC), and Dosewallips R, 21-VIII-2002, and Little Quilcene Cr, 3-IX-2003, and Snow Cr, 20-VIII-2003 (MV), and Duckabush R, 19-IX-1994 (RP); KING:

Carey Cr, 21-VIII-2002 (MV), and Cedar R, Cedar Falls, 14-X-1994, and Taylor Cr, 13-X-1994 (RP), and Lennox Cr, 8-VIII-2002, and Pratt R, 6-X-2003 (EPA); KITTITAS: Bear Cr, 29-IX-2000, and; Gladmar Pond, 12-IX-2002, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 22-IX-2000, and Upper Yakima R, Ellensburg, 18-IX-2002 (RP), and Yakima R, 2-XI-1990, Fend (SF); LEWIS: Butter Cr, 27-VIII-1993, and Simmons Cr, 31-VIII-1994 (RP), and Ohanapecosh R, 20-IX-2002, and Skookumchuck R, 17-X-2001, and Willame Cr, 7-VIII-2001 (EPA); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936, (WSU), and Chewuch R, 29-VIII-2004, and Granite Cr, 23-VIII-2004, and Okanogan Cr, 1-IX-2004, and Toats Coulee Cr, 31-VIII-2004 (MV); PEND OREILLE: Upper Slate Cr, 19-IX-2000 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993, and Rushing Water Cr, 25-IX-2002 (EPA). SKAGIT Higgins Cr, 3-IX-1998, Hill, and Little Dear Cr, 9-IX-1998, Hill (AH), and Illabot Cr, 15-IX-2004 (MV), and Marble Cr, 26-IX-2000 (RP); SKAMANIA: Trapper Cr, 11-IX-2001 (RP); SNOHOMISH: Black Cr, 7-IX-2000, and North Fork Sauk R, 24-IX-2002 (EPA), and Dan Cr, 17-VIII-2001, and South Fork Sauk, 5-VIII-2001, Rawhouser, and Owl Cr, 9-IX-2000, Hill (AH), and Jim Cr, 20-VIII-2001, and Woods Cr, Woods Cr Rd, 8-IX-1998 (RP); SPOKANE: Mt Spokane, 15-VII-1963, Edmunds, A (PERC); THURSTON: Monroe Cr, 8-IX-1998 (RP); WASHINGTON: Pataha Cr, 21-VII-2004 (MV); WHATCOM: Bacon Cr, 13-IX-2000, and Goodell Cr, 12-IX-2000, and Newhalem Cr, 11-IX-2000 (RP), and Bear Cr, North Cascades Natl Prk, 20-VIII-1999, and Chilliwack, North Cascades Natl Prk, 15-IX-1999, and Little Chilliwack Camp, North Cascades Natl Prk, 16-IX-1999, Hill (AH); WHITMAN: Steptoe Canyon, 17-III-1974, Corredor (WSU); YAKIMA: American R, Bumping R Rd, 22-IX-1993, and South Fork Tieton R, 28-IX-2000, and Yakima R, 17-IX-2002 (RP), and Bear Cr, 5-XI-1990, Fend (SF), and Nelson Cr, 8-VIII-2001, and Oak Cr, 20-VII-2000 (EPA); and Rimrock Lake, 12-VI-1973, Turner et al. (WSU).

Ephemerella alleni Jensen and Edmunds

Previous data.—Jacobus et al. (2003): PIERCE (Tehema Cr seep, Frying Pan Cr seep, Westside Rd seep, stream off Hwy 706).

Ephemerella aurivillii (Bengtsson)

Previous data.—Allen and Edmunds (1965): JEFFERSON (Quinalt R).

New data.—COLUMBIA: Sheep Cr, E Dayton, 22-V-1982, Turner (WSU); GRAYS HARBOR: West Fork Porter Cr, 25-IX-1997 (PERC); KING: Big Soos Cr, Auburn, 24-VIII-1998 (USGS), and South Fork Snoqualmie R, Hwy 90, 6-V-1982, Baumann & Cox (BYU); KITTITAS: Cooper R, Copper Lake, 1-XI-1990, Fend (SF), and Yakima R, Hwy 90, Cle Elum, 6-V-1982, Baumann & Smith (BYU); LEWIS: North Fork Lincoln Cr, 11-IX-1997 (PERC), and Ohanapecosh R, 27-VIII-1993 (RP); OKANOGAN: North Fork Toats Coulee Cr, 7-IX-1995 (RP), and Salmon Cr, 26-VIII-1997 (PERC); THURSTON: Green Cove Cr, 26-IX-1998 (PERC); WHATCOM: Breckenridge Cr, South Pass Rd, 12-IX-1996, and Thompson Cr, 16-IX-1996 (RP); YAKIMA: Indian Cr, SR 12, 23-IX-1993 (RP), and North Fork Tieton R, 30-X-1990, Fend (SF).

Ephemerella dorothea Needham

Previous data.—Allen and Edmunds (1965) as *E. infrequens* McDunnough: CHELAN: (Wenatchee R), SPOKANE (Little Spokane R, Peone Cr); Martin (1976) as *E. infrequens*: JEFFERSON (Christmas Cr, Shale Cr, Stequaleho Cr, West Fork Snahapish Cr); Jacobus and McCafferty (2003): SPOKANE (Lake Spokane R).

New data.—ASOTIN: 9 mi S Field Spring St Prk, Hwy 129, 20-IV-1978, Kieffer, and 14 mi S Anatone, 15-IV-1978, Zack, and Asotin Cr, 13-IV-1940, Matheson, and Fields Springs St Prk, 22-IV-1972, Turner (WSU), and George Cr, 31-I-1998 (RN); CHELAN: Stevens Pass, 24-VI-1940 (INHS), and Wenatchee R, 22-VII-1971, Turner & Harwood, A (WSU); CLALLAM: Indian Cr, Lake Aldwell, 18-VI-1978, Brigham & Brigham (PERC), and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Touchet R, 3-VI-2000 (RN), and Tucannon R, 22-III-1986, Zack & Zack (WSU); JEFFERSON: Big Cr, 2.8 mi SW Fletcher Cr, 21-VI-1978, Brigham & Brigham (PERC); KING: Green Water R, Greenwater, 2-VI-1967, Baumann (PERC), and Hall Cr, 26-V-1976, Honey (LACM), and Snoqualamie R, 19-V-1935 (WSU); KITTITAS: Cabin Cr, 1-XI-1990, Fend (SF), and Manahtash Cr, 9 mi WNW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS); KLUCKITAT: Rock Cr, Box Canyon Rd, 21-III-1998 (RN); LEWIS: Simmons Cr, 13-IX-1993 (RP); PEND OREILLE: Little Muddy Cr, Ione, 10-IV-1972, Nishimura (WSU); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP), and White River, Mt Rainier Natl Prk, 29-V-1997, Kondratieff (CSU); SPOKANE: Griffith Springs Fish Hatchery, 1-IV-1972 (WSU); UNION: Lookinglass Cr, 19-VI-1999 (RN); WHITMAN: Almota, 23-IV-1955, Gill, and Palouse R, Pullman, 10-IV-1940, Story, and Steptoe Canyon, 26-II-1966, Taylor (WSU); YAKIMA: North Fork Wenas Cr, 2-XI-1990, Fend (SF), and Rimrock Lake, 12-VI-1973, Turner, and Tieton R, 12-VI-1973, Corredor (WSU).

Ephemerella excrucians Walsh

Previous data.—Allen and Edmunds (1965) as *E. inermis* Eaton: BENTON (Columbia R, Richland), SPOKANE (Little Spokane R), STEVENS (Loon Lake); Carlson (1989) as *E. inermis*: COLUMBIA (Tucannon R).

New data.—BENTON: Columbia R, 3-VII-1998, A (RN), and Richland, 9-VII-1999, Newell, A (CSU); COLUMBIA: Touchet R, 3-VII-2000, A (RN); KING: North Fork Newaukum Cr, 20-XI-2002 (MV); KITTITAS: Yakima R, Hwy 90, Cle Elum, 6-V-1982, Baumann & Smith (BYU); OKANOGAN: Beaver Cr, 21-IV-2004, and Methow R, 26-IV-2004 (MV); SPOKANE: Peone Cr, Bruce Rd, 19-VI-1955, Allen (PERC); WHITMAN: 4 mi W Palouse, 29-V-1954, Johansen, and Almota Cr, 1-V-1955, Gill (WSU); YAKIMA: Oak Cr, 28-IX-2000, and South Fork Tieton R, 28-IX-2000 (RP).

Ephemerella verruca Allen and Edmunds

Previous data.—O'Laughlin (1988): STEVENS (Chamokane Cr).

Remarks.—The inclusion of this species in Washington remains provisional because we have yet to see additional data that would confirm the unpublished report. It is, however, known from the adjacent state of Oregon (e.g., Allen and Edmunds 1965).

Eurylophella lodi (Mayo)

Previous data.—Allen and Edmunds (1963b): PIERCE (Puyallup).

Serratella micheneri (Traver)

Previous data.—Allen and Edmunds (1963a): LEWIS. Jacobus and McCafferty (2003): LEWIS (Centralia).

New data.—COLUMBIA: Touchet R, 10-IX-2000 (RN); KING: Green R, Fall 2001 (PERC); LEWIS: Rainbow Falls St Prk, 23 mi W Chehalis, 13/14-VII-1977, Turner, A (WSU).

Serratella teresa (Traver)

Previous data.—Allen and Edmunds (1963a): STEVENS (nr Springdale); Martin (1976): JEFFERSON (Christmas Cr).

New data.—CHELAN: Beaver Cr, 24-VII-2001, and Peshastin Cr, 17-VII-2002, and Scotty Cr, 22-VII-2003, and Wenatchee R, 11-VII-2002 (EPA); CLALLAM: East Fork Dickey R, 10-VII-2001 (EPA); KING: Barnes Cr, 20-VIII-2000 (PERC), and Intake Cr, 2-VII-2003 (EPA); KITTITAS: Swauk Cr, Mineral Springs, 13-VIII-1993 (RP); MASON: Danny Walker Cr, 2-VII-2002 (EPA); OKANOGAN: Middle Fork Toats Coulee Cr, 6-IX-1996, and North Fork Toats Coulee Cr, 7-IX-1995, and Sarsapkin Cr, 8-IX-1995, and South Fork Toats Coulee Cr, 4-IX-1996 (RP); SKAGIT: Diobsud Cr, 14-IX-1995, and Jackman Cr, 13-IX-1995 (RP) SNOHOMISH: Long Cr, 19-IX-1995 (RP); SPOKANE: Deadman Cr, Mt Spokane St Prk, 7-VII-1962, Edmunds (PERC).

Serratella tibialis (McDunnough)

Previous data.—Allen and Edmunds (1963a): CLALLAM (Ennis Cr), FERRY (nr Republic), KITTITAS (Little Naches R), SPOKANE (Peone Cr); Martin (1976): JEFFERSON (Christmas Cr, Shale Cr, Stequaleho Cr, West Fork Snahapish Cr); O'Laughlin (1988): STEVENS (Chamokane Cr); Plotnikoff and Ehinger (1997): ASOTIN (North Fork Asotin Cr), CLALLAM (Siebert Cr), COLUMBIA (Cummings Cr, Tucannon R), JEFFERSON (Duckabush R), KING (Cedar Cr, Cedar R, Covington Cr), KITTITAS (Middle Fork Teanaway R, Swauk Cr, Upper Yakima R), LEWIS (Butler Cr, Simmons Cr), PIERCE (Elbe Site), SKAGIT (Deer Cr, Finney Cr, Illabot Cr), SKAMANIA (Trapper Cr), SNOHOMISH (Long Cr), SPOKANE (Dragoon Cr, Little Spokane R, Marshall Cr), YAKIMA (Little Naches R, Rattlesnake Cr).

New data.—BENTON: Yakima R, Umtanum Rd, 9-VIII-1993 (RP); CHELAN: Beaver Cr, 24-VII-2001, and Chiwawa R, 1-VIII-2002, and East Fork Mission Cr, 6-VIII-2002, and Icicle Cr, 5-IX-2001, and Ingalls Cr, 1-VIII-2001, and Jack Cr, 31-VII-2001, and Lake Cr, 11-IX-2003, and Leland Cr, 10-IX-2002, and Little Wenatchee R, 12-IX-2002, and Minnow Cr, 26-VII-2001, and Mission Cr, 24-VII-2003, and North Shaser Cr, 19-VII-2001, and Peshastin Cr, 18-VII-2002, and Rainy Cr, 5-VII-2001, and Sand Cr, 2-VIII-2002, and Scotty Cr, 22-VII-2003, and Twentyfivemile Cr, 11-VII-2002, and Wenatchee R, 11-VII-2002, and White R, 16-VII-2002, and Whitepine Cr, 22-VIII-2002 (EPA), and Blewett, 10-VIII-1960, and Cashmere, 10-VIII-1960, Edmunds (PERC), and Boulder Cr, North Cascades Natl Prk, 3-VIII-1995, and Fourmile Cr, North Cascades Natl Prk, 1-VIII-1995, and Rainbow Cr, North Cascades Natl Prk, 2-VIII-1995, Glesne & Zyskowski (AH); CLALLAM: Boundary Cr, 11-IX-2002, and Cool Cr, 24-

VIII-2004, and Mud Cr, 11-IX-2003 (MV), and Dungeness R, Hwy 101, 4-IX-1958, Edmunds & Allen, and Indian Cr, Lake Aldwell, 18-VI-1978, and Soleduck R, W Sappho, 20-VI-1978, Brigham & Brigham (PERC), and East Fork Dickey R, 10-VII-2001 (EPA), and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Cougar Cr, 6-VIII-2003 (EPA), and Cummings Cr, Wooten, 21-VIII-2002 (RP), and Touchet R, 10-IX-2000 (RN); FERRY: Kettle R, Barstow, 30-VII-2003, and North Fork Hall Cr, 31-VII-2003, and Sherman Cr, 30-VII-2003 (RP), and Nez Perce Cr, 17-VII-2001, and Sanpoil R, 12-VIII-2003 (EPA), and Scatter Cr, 22-VII-2004 (MV); GRAYS HARBOR: Donkey Cr, Donkey Rd, 2-IX-1958, and East Fork Humptulips R, 2-IX-1958, and Humptulips R, 2-IX-1958, and West Fork Humptulips R, Donkey Rd, 2-IX-1958, Edmunds & Allen, and Raft River, Hwy 101, Queets, 18-VI-1967, Baumann (PERC), and McCalla Cr, 30-VIII-2004 (MV), and Porter Cr, 14-VIII-2001 (RP), and Salmon R, 11-VII-2001 (EPA); JEFFERSON: Dosewallips R, 21-VIII-2002, and Little Quilcene Cr, 3-IX-2003, and Middle Fork Matheny Cr, 16-IX-2003, and Salmon R, 11-VIII-2003, and Snow Cr, 20-VIII-2003 (MV), and Duckabush R, 15-VIII-2001 (RP), and Hoh R, 9-VII-2003, and Snahapish R trib, 13-VIII-2002 (EPA), and North Fork Quinalt R, Olympic Natl Prk, 3-IX-1958, and Queets R, Clearwater Rd, 2-IX-1958, and Quinalt R, Olympic Natl Prk, 3-IX-1958, and Twin Cr, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen, and Taft Cr, Olympic Natl Prk, 20-VI-1978, Brigham & Brigham (PERC); KING: Bear Cr, 12-VIII-1999, and Carey Cr, 17-VIII-1999, and Covington Cr, 18-VIII-1999, and Pussyfoot Cr, 22-VII-2003 (RP), and Big Soos Cr, Auburn, 14-VIII-1996, and Green R, Lester, 27-VIII-1996, and Newaukum Cr, Black Diamond, 16-VIII-1997, and Taylor Cr, 22-VIII-1997, and Rock Cr, 13-VIII-1997 (USGS), and Intake Cr, 18-IX-2003 (EPA), and Silver Cr, 3-IX-1968, Koss (PERC), and Snoqualmie R, 2 mi N Snoqualmie, Hwy 203, 8-VIII-1967, and White R, Hwy 410, 6-VIII-1967, Allen (CAS); KITSAP: Big Quilcene R, Hwy 101, 4-IX-1958, and Little Quilcene R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC); KITTITAS: Cle Elum R, 9-IX-1993, and Gladmar Pond, 12-IX-2002, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 25-VIII-2003, and Naneum Cr, 13-VIII-2002, and North Fork Teanaway R, 14-VIII-2002, and West Fork Teanaway R, 14-VIII-2002 (RP), and Manahtash Cr, 27-IV-1979, Butcher & Wetzel (INHS), and North Fork Wenas Cr, 13-VII-2000 (EPA), and Yakima R, 11-VIII-1967, Allen (CAS); LEWIS: Cowlitz R, 3 mi W Packwood, 1-IX-1958, and Johnson Cr, 1-IX-1958, and Lake Cr, 1-IX-1958, and Scate Cr, Packwood, 1-IX-1958, Edmunds & Allen (PERC), and Mineral Cr, 3-VII-2002, and Ohanapecosh R, 20-IX-2002, and Willame Cr, 7-VIII-2001 (EPA). MASON: Cedar Cr, 22-VIII-2002 (MV), and Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and North Fork Skokomish R, 29-VIII-1997, and Skokomish R, Potlatch, 12-IX-1996, and Vance Cr, 25-VIII-1997 (USGS); OKANOGAN: Cecile Cr, 10-IX-1996, and Chewack R, 11-IX-1997, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 5-IX-1996, and Sarsapkin Cr, 11-IX-1996, and South Fork Salmon Cr, 9-IX-1997, and 28-VIII-1997, and Twisp R, Poorman Cr Rd, 10-IX-1997 (RP), and Methow R, 23-IX-2003 (EPA); PEND OREILLE: Little Muddy Cr, 6-VIII-1996, and North Fork Sullivan Cr, 6-VIII-1996 (RP); PIERCE: Clearwater R, 5-IX-1997, and Huckleberry Cr, 5-IX-1997, and South Prairie Cr, Burnett, 9-III-1997 (RP), and Goat Cr, 1-IX-1958, Slippery Creek, Greenwater, 5-IX-1958, and Greenwater R, 5-IX-1958, Edmunds & Allen, and Ohanapecosh R, Mt Rainier

Natl Prk, 25-IX-1996, Lechlietner, A (PERC); SKAGIT: Diobsud Cr, 14-IX-2000, and Little Deer Cr, 2-VIII-2001, and Marble Cr, 26-IX-2000, and Presentin Cr, 9-IX-1998 (RP), and Lake Bacon Cr, 6-IX-1998, and Lake Illabot, 26-VIII-1998, and Tenas Cr, 7-IX-1997, Hill (AH), and North Fork Stillaguamish R, 26-VIII-1997 (USGS), and O'Toole Cr, 10-IX-2002 (MV), and Oyster Cr, 23-VII-2002 (EPA); SKAMANIA: Quartz Cr, 15-VIII-2002 (EPA), and Trapper Cr, 7-VIII-2002 (RP); SNOHOMISH: Armstrong Cr, 4-IX-2001, and Boulder Cr, Hwy 530, 31-VII-2001, and Canyon Cr, 4-IX-2001, and Deer Cr, 31-VII-2001, and Jim Cr, 19-IX-1995, and Little Pilchuck Cr, 16-IX-1997, and North Fork Stillaguamish R, Hazel, 1-VIII-2001, and Portage Cr, 5-IX-2001, and Squire Cr, 31-VII-2001, and Woods Cr, Woods Cr Rd, 13-IX-1999 (RP), and Circle Cr, 27-VIII-1998, and Dan Cr, 30-VIII-1998, and Upper Clear Cr, 28-VIII-1998, Hill (AH), and North Fork Sauk R, 24-IX-2002, and South Fork Stillaguamish R, 14-VIII-2001 (EPA); SPOKANE: Deadman Cr, Deadman Cr Rd, 7-VII-1962, and Mt Spokane, 15-VII-1963, Edmunds, and Spokane Cr, Bruce Rd, 19-VI-1955, Allen (PERC); STEVENS: Big Muddy Cr, 6-VIII-1996, and Big Sheep Cr, SR 25, 7-VIII-1996, and Chewelah Cr, 8-VIII-1996, and Colville R, 17-VII-2003, and Deer Cr, 17-VII-2003, and Kettle R, Barstow, 30-VII-2003, and Stensgar Cr, 17-VII-2003 (RP), and Springdale, 26-VII-1996, Edmunds (PERC); UNION: Lookinglass Cr, 19-VI-1999 (RN); WAHKIAKUM: West Fork Grays R trib, 8-VIII-2002 (RP); WHATCOM Austin Cr, 11-VII-2002, and Bertrand Cr, 10-IX-1998, and Breckenridge Cr, South Pass Rd, 12-IX-1996, and Chilliwack R, 15-IX-1999, and Chuckanut Cr, 11-VII-2002, and Goodell Cr, 12-IX-2000, and Hutchinson Cr, 10-IX-1996, and Little Beaver Cr, 21-VIII-2001, and Newhalem Cr, 11-IX-2000 (RP), and Bacon Cr, 6-IX-1998, and Wanlick Cr, 18-IX-1999, Hill (AH), and Nooksack R, N Cedarville, 6-IX-1996 (USGS); YAKIMA: Ahtahum Cr, Union Gap, 27-IX-2000 (USGS), and American R, at Bumping R Rd, 24-VII-2002 (RP), and Brush Cr, 11-VII-2000, and Oak Cr, 20-VII-2000 (EPA), and Naches R, 1 mi S Cliffdell, 5-IX-1958, Edmunds & Allen (PERC); Terrace Heights Pond, 10-IX-2002 (RP), and Yakima R, 5-IX-2002 (RP).

Timpanoga hecuba (Eaton)

Previous data.—Allen and Edmunds (1959): KING (Green R); Martin (1976): JEFFERSON (Stequaleho Cr, West Fork Snahapish Cr).

New data.—ASOTIN: Asotin Cr, 18-VII-1997 (RN), and North Fork Asotin Cr, 19-VIII-1993 (RP); CHELAN: Mission Cr, 24-VII-2003 (EPA), and Wenatchee R, Dryden, 12-VII-1964, Edmunds (PERC); CLALLAM: East Twin R, 4-VIII-2002, and Kalaloch Cr, 16-IX-2003, and Steamboat Cr, 9-IX-2003 (MV), and East Fork Dickey R, 10-VII-2001 (EPA), and Little R, Olympic Hot Springs Rd, 26-VII-2004, and McDonnell Cr, 19-VI-1998, and Peabody Cr, N Park Ave, 14-VI-1998, and Salt Cr, W Camp Hayden Park Rd, 20-V-2004, and Valley Cr, W Port Angeles, 4-VII-2000, and White's Cr, 14-VI-1998, Frost (AF); COLUMBIA: Tucannon R, Marengo, 18-VIII-1993 (RP); FERRY: Sanpoil R, 12-VIII-2003 (EPA); GARFIELD: Pataha Cr, 18-VII-1997 (RN); GRAYS HARBOR: Humptulips R, 2-IX-1958, Edmunds & Allen (PERC); Salmon R, 11-VII-2001 (EPA). JEFFERSON Hoh R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC), and Middle Fork Salmon R, 11-VIII-2003 (MV), and Snahapish Cr trib, 13-VIII-2002 (EPA); KING: Bear Cr, 12-VIII-1999, and Pussyfoot Cr, 22-VII-2003 (RP), and Big Soos Cr, Auburn, 14-VIII-1996, and Green R, Lester, 28-

VIII-1996, and Newaukum Cr, Black Diamond, 21-VIII-1996 (USGS), and Cedar R, Maple Valley, Hwy 169, 8-VIII-1967, Allen (CAS); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KITTITAS Little Naches R, 5-IX-1958, Edmunds & Allen (PERC), and Swauk Cr, Mineral Springs, 13-VIII-1993 (RP); LEWIS: Butter Cr, 27-VIII-1993 (RP); MASON: North Fork Skokomish R, 25-IX-1996, and Skokomish R, Potlatch, 12-IX-1996 (USGS); OKANOGAN: Chewack R, 11-IX-1997 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP); SKAGIT: Jones Cr, 5-VIII-2001, Rawhouser (AH); SKAMANIA: Trapper Cr, 16-VIII-1993 (RP); SNOHOMISH: Canyon Cr, 4-IX-2001, and Deer Cr, 31-VII-2001, and Jim Cr, 20-VIII-2001, and Woods Cr, Woods Cr Rd, 16-IX-1997 (RP), and North Fork Stillguamish R, Arlington, 8-VIII-1967, Allen (CAS); WALLA WALLA: Walla Walla R, 30-VI-1996 (RN); WHATCOM: Nooksack R, N Cedarville, 6-IX-1996 (USGS); YAKIMA: Naches R, 24-VIII-1996 (RN), and Rattlesnake Cr, 10-VIII-1993 (RP).

Ephemeridae

Ephemera simulans Walker

New data.—BENTON: Columbia R, 21-VII-1997, A (RN).

Hexagenia limbata (Serville)

Previous data.—McCafferty and Meyer (2007b): BENTON (Snake R), CHELAN (Lake Chelan), COLUMBIA (Touchet R), SPOKANE (Spokane).

Heptageniidae

Cinygma dimicki McDunnough

New data.—CLALLAM: Bogachiel R, Bogachiel, 29-VI-1974, Arnaud, A (CAS); WHATCOM: Hutchinson Cr, E Acme, 28-VIII-1971, Ross, A (INHS).

Cinygma integrum Eaton

Previous data.—McCafferty and Meyer (2007b): ASOTIN (Fields Spring St Prk), CLALLAM (Indian Cr), LEWIS (Ohanapecosh R), OKANOGAN (8 Mile Cr), PIERCE (Mt Rainier Natl Prk), SAN JUAN (Deadman Cr), YAKIMA (Rimrock Lake).

Cinygmula gartrelli McDunnough

New data.—LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 4-X-1996, Lechlietner, A, and Skate Cr, FR 52, 15-V-2001, Kondratieff, A (CSU); PIERCE: Huckleberry Cr, 14-V-2001, Kondratieff, A, and Ipsut Falls, Mt Rainier Natl Prk, 15-V-2001, Kondratieff, A (CSU).

Cinygmula mimus (Eaton)

New data.—CHELAN Stevens Pass, 24-VI-1940, Ross & Ross (INHS); CLALLAM: Soleduck R, Hwy 101, Forks, 18-VI-1967, Baumann, A (PERC); FERRY: Sweat Cr Camp, 9 mi W Republic, 28-VII-1973, Turner & Corredor (WSU); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 14-V-2001, Kondratieff, A (CSU); PIERCE: Ohanapecosh R, Mt Rainier Natl Prk, 19-V-1995, Lechlietner, A (CSU); WHATCOM: Raxorhone Cr, Shuksan, 24-VII-1936, Ross (INHS).

Cinygmula par (Eatons)

New data.—ADAMS: 12 mi W Washtocna, 26-III-1972, Curtis & Turner (WSU); COLUMBIA: 13 mi SW Pomeroy, 22-III-1986, Zack & Zack (WSU); PEND OREILLE: Middle Cr, 21 mi S Ione, 5-IV-1972, Nishimura (WSU); PIERCE: Mystic Lake Resort, Mt. Rainier Natl Prk, 4-IX-1999, Lechtner, A (CSU), and White R, Mt Rainier Natl Prk, 9/10-VIII-1977, Turner, A (WSU); SPOKANE: Deadman Cr, Spokane, 11-VII-1970, Edmunds, A (PERC); YAKIMA: Bird Cr Meadow, Mt Adams, 7-VIII-1959, Jewett, A (PERC).

Cinygmula ramaleyi (Dodds)

New data.—COLUMBIA: North Fork Touchet R, 26-IX-1998, A (RN); FERRY: Sherman Cr, 20 mi NW Kehle Falls, 17-VIII-1964, Edmunds (CAS); JEFFERSON: Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen, A (PERC); KING: Silver Cr, 3-IX-1968, Koss (PERC); MASON: Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Allen, A (CAS); PIERCE: Huckleberry Cr, Mt Rainier Natl Prk, 27-IX-1995, Lechlietner, A (CSU); WHATCOM: Bagley Cr, Shuksan, 24-VII-1936, Ross (INHS).

Cinygmula reticulata McDunnough

New data.—ASOTIN: Grande Ronde R trib, S Anatone, 15-IV-1978, Zack (WSU); CLALLAM: Sol Duc Hot Springs, 25-V-1996, Kippenhan, A (CSU); COLUMBIA: Tucannon R, 27-I-1974, Woodley (WSU); KITTITAS: Little Naches R, 5-IX-1958, Edmunds & Allen (PERC), and Manashtash Cr, 9 mi WNW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS); PIERCE: Westside Rd, 22-V-2003, Kondratieff et al., A (CSU); SKAMANIA: Beacon Rock St Prk, 25-IV-1998, Kippenhan (CSU); WALLA WALLA: 5 mi SE Walla Walla, 26-II-1972, Alpert (WSU); WHITMAN: Rock Lake, 30-X-1949, and Snake R, 6 mi NW Colton, 25-I-1986, Akre (WSU); YAKIMA: Rimrock Lake, 12-VI-1973, Turner et al., and Ticton R, 12-VI-1973, Corredor (WSU).

Cinygmula tarda (McDunnough)

New data.—KLICKITAT: Rock Cr, Box Canyon Rd, 21-III-1998, A (RN).

Cinygmula uniformis McDunnough

New data.—SKAGIT: Sauk R, 5-X-1940, Lambuth, A (PERC); FERRY: Sweat Cr Camp, 9 mi W Republic, 28-VII-1973, Turner & Corredor (WSU); GRAYS HARBOR: East Fork Humptulips R trib, 2-IX-1958, Edmunds & Allen (PERC); SKAMANIA: Cultus Cr trib, 31-VIII-1958, Edmunds & Allen (PERC); WHITMAN: Steptoe Canyon, 6 mi SW Colton, 13-IV-1986, Zack (WSU); YAKIMA: Bear Cr, 11/12-VI-1973, Turner, A (WSU), and South Fork Simcoe Cr, 8 mi NW White Swan, 5-IX-1950, Preece (PERC).

Ecdyonurus criddlei (McDunnough)

Previous data.—Traver (1935): YAKIMA (Yakima); Jacoby (1987) as *Nixe rosea* (Traver); KING (Raging R).

New data.—CHELAN: Wenatchee R, Dryden, 12-VII-1964, Edmunds (PERC); GRAYS HARBOR: East Fork Humptulips R, 2-IX-1958, and Humptulips R, 2-IX-1958, and West Fork Humptulips R, Donkey Rd, 2-IX-1958, Edmunds &

Allen (PERC); JEFFERSON: Queets R, Clearwater Rd, 3-IX-1958, and Twin Cr, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen, A (PERC); KITTITAS: Manastash Cr, 27-IV-1979, Butcher & Wetzel (INHS); PIERCE: Clover Cr, Hwy 7, Spanaway L, 14-VI-1969, Baumann (PERC); SNOHOMISH: Grant Cr, 20-IX-1995 (RP); SPOKANE: Dragoon Cr, Dalton Rd, 26-VI-1955, Allen (PERC), and Little Spokane R, Chattaroy, 23-VI-1940, Ross & Ross, and Spokane, 1940, Gustafson (INHS), and Marshall Cr, 4-X-1994 (RP); WHITMAN: Palouse R, 21-VII-1974, Arnaud, A (CAS); YAKIMA: Naches R, 1 mi S Cliffdell, 5-IX-1958, Edmunds & Allen (PERC).

Ecdyonurus simplicioides (McDunnough)

New data.—BENTON: Columbia R, 15-VII-1998, A, and Richland, 30-VI-1998, A (RN); PIERCE: Ft Lewis, Hwy 507, 12-VI-1968, Baumann (PERC).

Epeorus albertae (McDunnough)

Previous data.—O’Laughlin (1988): STEVENS (Chamokane Cr); Plotnikoff and Ehinger (1997): SKAGIT (Diobsud Cr), SNOHOMISH (Grant Cr).

New data.—ASOTIN: Asotin Cr, 13-VII-1985, Turner (WSU); CHELAN: Entiat R, Entiat, 15-VIII-2002, and Jack Cr, 22-IX-2000 (RP), and Little Wenatchee R, 15-VIII-2001, and North Shaser Cr, 19-VII-2001, and Scotty Cr, 22-VII-2003, and Wenatchee R, 11-VII-2002 (EPA); CLALLAM: Soleduck R, W Sappho, 20-VI-1978, Brigham & Brigham (PERC), and South Branch Little R, 16-VIII-2001 (RP); COLUMBIA: Cummings Cr, Wooten, 21-VIII-2002, and Kettle R, Barstow, 30-VII-2003 (RP), and North Fork Touchet R, 9-IV-1996, and Touchet R, 3-VI-2000 (RN); FERRY: Sherman Cr, 30-VII-2003 (RP); GARFIELD: Pataha Cr, 18-VII-1997 (RN); JEFFERSON: Duckabush R, 12-X-2000 (RP), and Willoughby Cr, 20-VI-1978, Brigham & Brigham (PERC); KING: Pussyfoot Cr, 21-VII-2003 (RP); KITTITAS: Middle Fork Teanaway R, 22-IX-2000, and Quilomene Cr, 2-VII-2002, and South Fork Manastash Cr, 21-IX-2000, and Umtanum Cr, Durr Rd, 12-VIII-2002, and Yakima R, 25-IX-2002 (RP); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP); OKANOGAN: Cecile Cr, 6-IX-1995, and Chewack R, 11-IX-1997, and Methow R, Mazama, 11-IX-1997, and North Fork Toats Coulee Cr, 7-IX-1995, and South Fork Salmon Cr, 9-IX-1997, and Twisp R, Poorman Cr Rd, 10-IX-1997 (RP); PACIFIC: Ellsworth Cr, 28-VIII-2002 (RP); PEND OREILLE: North Fork Sullivan Cr, 19-IX-2000, and Upper Slate Cr, 19-IX-2000 (RP); PIERCE: Huckleberry Cr, 5-IX-1997 (RP), and Viola Cr, 12-VII-2001 (EPA); SKAGIT: Diobsud Cr, 11-X-2002 (RP), and Jones Cr, 5-VIII-2001, Rawhouser (AH); SPOKANE: California Cr, 13-VIII-2003, and Hangman Cr, Bradshaw Rd, 12-VIII-2003, and Marshall Cr, 13-VIII-2003, and Rock Cr, Jackson Rd, 14-VIII-2003, and Deadman Cr, 18-VII-2003 (RP), and Deer Cr, Chattaroy, 19-VI-1955, and Dragoon Cr, Dalton Rd, 26-VI-1955, and Little Spokane R, Dartford, 13-VI-1955, Allen (PERC), and Spokane, 1940, Gustafson (INHS); STEVENS: Colville R, 17-VII-2003, and Deep Cr, 7-VIII-1996, and Deer Cr, 17-VII-2003, and Kettle R, Barstow, 30-VII-2003, and Stensgar Cr, 17-VII-2003 (RP); WHATCOM: Austin Cr, 11-VII-2002, and Bacon Cr, 13-IX-2000, and Breckenridge Cr, South Pass Rd, 12-IX-1996 (RP); WHITMAN: Almota, 23-IV-1955, Dill, and Wawawai, 6-IV-1966, Carol & Stan (WSU), and Palouse R, 16-VII-2003 (RP); YAKIMA: Ahtanum Cr, 62nd Ave, 23-VIII-2002, and American R, Bumping R Rd, 24-VII-2002, and South Fork Tieton R, 28-IX-2000 (RP), and Yakima R, 5-IX-2002 (RP).

Epeorus deceptivus (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): LEWIS (Ohanapecosh R), SKAGIT (Diobsud Cr, Illabot Cr, Jackman Cr), SNOHOMISH (Long Cr), YAKIMA (Indian Cr, Little Naches R).

New data.—CHELAN: Boulder Cr, North Cascades Natl Prk, 3-VIII-1995, and Fourmile Cr, North Cascades Natl Prk, 1-VIII-1995, and Rainbow Cr, North Cascades Natl Prk, 2-VIII-1995, Glesne & Zyskowski (AH), and French Cr, 9-IX-2003, and Grouse Cr, 9-VII-2003, and Icicle Cr, 5-IX-2001, and Panther Cr, 17-IX-2002, and Rainy Cr, 5-VII-2001, and White R, 16-VII-2002, and Whitepine Cr, 22-VIII-2002 (EPA), and McAlester Cr, 13-IX-2001, and Park Cr, 19-IX-2001, and South Fork Bridge Cr, 12-IX-2001 (RP); FERRY: Bracken Cr, 29-VIII-2000 (EPA); JEFFERSON: Hoh R, Olympic Natl Prk, 3-IX-1958, and North Fork Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC); KING: Cedar R, Maple Valley, Hwy 169, 8-VIII-1967, Allen (CAS), and Green R, Lester, 20-VIII-1997 (USGS); KITTITAS: Bear Cr, 21-IX-1993, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 25-VIII-2003 (RP), and North Fork Wenas Cr, 13-VII-2000 (EPA); LEWIS: Ohanapecosh R, 20-IX-2002 (EPA), and Simmons Cr, 13-IX-1993 (RP), and Skate Cr, Packwood, 1-IX-1958, Edmunds & Allen (PERC); MASON: Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC), and North Fork Skokomish R, 25-IX-1996 (USGS); OKANOGAN: Cecile Cr, 6-IX-1995, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 5-IX-1996, and Sarsapkin Cr, 11-IX-1996 (RP), and South Fork Toats Coulee Cr, 30-VIII-2000 (EPA); PEND OREILLE: Gypsy Cr, 29-VII-2003 (RP); PIERCE: Mystic, Mt Rainier Natl Prk, 4-IX-1999, Lechleitner (CSU); SKAGIT: Diobsud Cr, 19-VIII-2002, and Finney Cr, 12-IX-1995, and Marble Cr, 26-IX-2000 (RP), and Tenas Cr, 7-IX-1997, Hill, and Thunder Cr, 6-X-1995, Glesne & Zyskowski (AH); SKAMANIA: Lewis R, Mt Adams, 31-VIII-1958, Edmunds & Allen (PERC); SNOHOMISH: Buck Cr, 5-IX-1998, and Downey Cr, 12-IX-1998, and Lime Cr, 27-VIII-1998, Hill (AH); STEVENS: Deer Cr, 17-VII-2003 (RP); WHATCOM: Bacon Cr, 6-IX-1998, and North Fork Nooksack R, 13-IX-1999, and Nooksack R, 18-IX-1999, Hill (AH), and Bagley Cr, Shuksan, 24-VII-1936, Ross (INHS), and Breckenridge Cr, South Pass Rd, 12-IX-1996, and Chilliwack R, 15-IX-1999, and Happy Cr, 9-IX-2001, and Hutchinson Cr, 10-IX-1996, and Lightning Cr, 9-IX-1999, and Little Beaver Cr, 21-VIII-2001, and Newhalem Cr, 11-IX-2000, and Thompson Cr, 16-IX-1996 (RP), and Goodell Cr, 28-VIII-1997 (USGS); YAKIMA: American R, 5-IX-1958, Edmunds & Allen (PERC), and Crawford, 12-VII-2000, and Nelson Cr, 8-VIII-2001, and Oak Cr, 20-VII-2000, and Shellneck Cr, 3-VII-2001 (EPA).

Epeorus dulciana (McDunnough)

New data.—CHELAN: Wenatchee R, Dryden, 12-VII-1964, Edmunds (CAS); PIERCE: Slippery Cr, Greenwater, 5-IX-1958, Edmunds & Allen (PERC); WHITMAN: Almota, 15-V-1977, Yamane, A (WSU).

Epeorus grandis (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): JEFFERSON (Duckabush R), KING (Cedar R, Covington Cr), KITTITAS (Gold Cr, Swauk Cr, Umтанum Cr), LEWIS (Simmons Cr), WHITMAN (Upper Palouse R), YAKIMA (American R, Rattlesnake Cr); White and Johnson (1998): COWLITZ (Cameron Cr),

WAHKIAKUM (Mill Cr); Dickes (1999): JEFFERSON (South Fork Fulton Cr).
New data.—CHELAN: Boulder Cr, 20-VIII-2003, and Box Cr, 19-IX-2002, and East Fork Mission Cr, 6-VIII-2002, and Foolhen Cr, 7-VIII-2002, and French Cr, 9-IX-2003, and Icicle Cr, 5-IX-2002, and Indian Cr trib, 11-IX-2001, and Lake Cr, 9-X-2002, and Leland Cr, 10-IX-2002, and Little Giant Cr trib, 8-X-2002, and Little Wenatchee R, 12-IX-2002, and Minnow Cr, 26-VII-2001, and Panther Cr, 17-IX-2002, and Nason Cr trib, 28-VIII-2002, and Negro Cr trib, 23-VII-2003, and Peshastin Cr, 18-VII-2002, and Rainy Cr, 5-VII-2001, and Stevens Cr, 8-VII-2003, and Twentyfivemile Cr, 11-VII-2002, and White R, 16-VII-2002, and Whitepine Cr, 22-VIII-2002 (EPA), and Company Cr, North Cascades Natl Prk, 19-IX-2001, Rawhouser, and and Bridge Cr, North Cascades Natl Prk, 31-VIII-2000, and McAlester Cr, North Cascades Natl Prk, 31-VIII-2000, Hill (AH), and Park Cr, 19-IX-2001, and Entiat R, 6-X-1993, and Jack Cr, 22-IX-2000 (RP); CLALLAM: Boundary Cr, 16-X-2002, and South Branch Little R, 20-IX-1994 (RP), and Eagle Point, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen, and Ennis Cr trib, 19-VI-1978, Brigham & Brigham (PERC); COLUMBIA: Cummings Cr, Wooten, 6-X-2003 (RP), and North Fork Touchet R, 5-IX-2000, and Touche R, Wolf Fork, 21-II-1998 (RN), and Sheep Cr, 8-VI-1978, Zack & Turner, and Tucannon R, 22-III-1986, Zack & Zack (WSU); FERRY: Bracken Cr, 29-VIII-2000 (EPA), and North Fork Hall Cr, 31-VII-2003 (RP), and Sherman Cr, 17-VIII-1964, Edmunds (CAS); GRAYS HARBOR: Appletree Cr, 8-IX-1999, and Cook Cr, 9-IX-1999, and Porter Cr, 8-IX-1999 (RP); JEFFERSON: Duckabush R, 12-X-2000 (RP); Rocky Brook, 12-IX-2000, and Snahapish trib, 13-VIII-2002 (EPA); KING: Cedar R, Cedar Falls, 8-IX-1999, and Covington Cr, 18-VIII-1999, and Griffin Cr, Trestle, 13-IX-1999, and Harris Cr, 13-IX-1999 (RP), and Hall Cr, Snoqualmie Pass, 26-V-1976, Hogue (LACM), and Lennox Cr, 8-VIII-2002, and Pratt R, 6-X-2003 (EPA), and Silver Cr, 3-IX-1968, and South Fork Snoqualmie R, I-90, 30-VIII-1968, Koss (PERC); KITTITAS: Bear Cr, 12-X-1994, and Middle Fork Teanaway R, 22-IX-2000, and Quartz Cr, 21-IX-1993, and South Fork Manastash Cr, 21-IX-2000 (RP), and Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS), and Lake Kachess, 30-V-1976, Hogue (LACM), and North Fork Wenas Cr, 13-VII-2000 (EPA); LEWIS: Ohanapecosh R, 20-IX-2002, and Willame Cr, 7-VIII-2001 (EPA), and Paradise R, Mt Rainier Natl Prk, 2-VIII-2001, Lechleitner, A (CSU); OKANOGAN: Chewack R, 11-IX-1997, and Methow R, Mazama, 11-IX-1997, and South Fork Salmon Cr, 9-IX-1997, and Twisp R, W Buttermilk Cr Rd, 10-IX-1997 (RP), and South Fork Toats Coulee Cr, 30-VIII-2000 (EPA); PACIFIC: Ellsworth Cr, 28-VIII-2002 (RP); PEND OREILLE: Gypsy Cr, 29-VII-2003, and North Fork Sullivan Cr, 6-VIII-1996, and Upper Slate Cr, 6-VIII-1996 (RP), and Little Muddy Cr, Ione, 7-IV-1972, Nishimura (WSU); PIERCE: Clearwater R, 5-IX-1997, and Elbe Site (unnamed), 11-X-1993, and Huckleberry Cr, 5-IX-1997, and South Prairie Cr, Burnett, 9-III-1997, and Twentyfivemile Cr, 18-IX-1997 (RP), and Emmons Glacier, Mt Rainier, 16-VII-1950, Davis, A, and Goat Cr, 5 mi E Ashford, 1-IX-1958, Edmunds & Allen, and Paradise R, Mt Rainier Natl Prk, 16-VIII-1999, Kondratieff, A, and Silver R, Hwy 410, 11-VI-1967, Baumann, and White R, Mt Rainier Natl Prk, 3-IX-1968, Koss (PERC), and Ohama Camp, Mt Rainier, 22-VII-1966 (UCB), and Rushing Water Cr, 25-IX-2002 (EPA), and Tamanos Cr, 3-VIII-2000, Lechleitner, A (CSU); SKAGIT: Arrow Cr, 29-VIII-1998, and Tenas Cr, 7-IX-1997, and Upper Illabot, 29-VIII-1998, Hill (AH), and Diobsud Cr, 14-IX-2000, and Little Deer Cr, 2-VIII-2001,

and Marble Cr, 26-IX-2000 (RP); SKAMANIA: Bear Cr, Carson, 4-X-2000, and Trapper Cr, 5-X-2000 (RP), and Boyles Cr, 8-IV-1972 (WSU), and June Lake, Mt Saint Helens, 12-VII-1997, Fitzgerald & Foley (CSU), and Quartz Cr, 15-VIII-2002 (EPA); SNOHOMISH: Canyon Cr, 4-IX-2001, and Jim Cr, 14-IX-1999, and Woods Cr, Woods Cr Rd, 16-IX-1997 (RP), and Clear Cr, 28-VIII-1998, and Dan Cr, 30-VIII-1998, and Lime Cr, 27-VIII-1998, Hill (AH), and North Fork Sauk R, 24-IX-2002 (EPA); SPOKANE: Deadman Cr, Mt Spokane, 7-VII-1962, Edmunds (PERC); STEVENS: Colville R, 17-VII-2003 (RP); THURSTON: Monroe Cr, 8-IX-1998 (RP); WHATCOM: Austin Cr, 11-VII-2002, and Goodell Cr, 12-IX-2000, and Happy Cr, 9-IX-2001, and Hutchinson Cr, 10-IX-1996, and Lightning Cr, 9-IX-1999, and Newhalem Cr, 11-IX-2000 (RP), and Bacon Cr, 6-IX-1998, and Noosack R, 19-IX-1999, Hill, and Thunder Cr, North Cascades Natl Prk, 31-X-1995, Glesne & Zyskowski (AH), and Bagley Cr, Shuksan, 24-VII-1936, Ross (INHS), and Heather Meadows, 11-VIII-1974, Turner, A (WSU); YAKIMA: American R, Bumping R Rd, 24-VII-2002, and South Fork Tieton R, 28-IX-2000 (RP), and Crawford, 12-VII-2000, and Nelson Cr, 8-VIII-2001, and Oak Cr, 20-VII-2000, and Shellneck Cr, 3-VII-2001 (EPA).

Epeorus longimanus (Eaton)

Previous data.—Plotnikoff and Ehinger (1997): JEFFERSON (Duckabush R), SKAMANIA (Trapper Cr); O'Laughlin (1988): STEVENS (Chamokane Cr).

New data.—ASOTIN Asotin Cr, 7-III-1998 (RN), and North Fork Asotin Cr, 19-VIII-1993 (RP); CHELAN: Boulder Cr, North Cascades Natl Prk, 3-VIII-1995, and Fourmile Cr, North Cascades Natl Prk, 1-VIII-1995, and Rainbow Cr, North Cascades Natl Prk, 2-VIII-1995, Glesne & Zyskowski (AH), and Chiwawa R, 1-VIII-2002, and East Fork Mission Cr, 6-VIII-2002, and Icicle Cr, 5-IX-2001, and Jack Cr, 31-VII-2001, and Mission Cr, 24-VII-2003, and Nason Cr, 10-VII-2003, and Negro Cr trib, 23-VII-2003, and Peshastin Cr, 17-VII-2002, and Rainy Cr, 5-VII-2001, and Stevens Cr, 8-VII-2003, and Twentyfivemile Cr, 11-VII-2002, and White R, 11-VII-2003, and Whitepine Cr, 22-VIII-2002 (EPA), and Wenatchee R, Chiwaukum, 24-VI-1940, Ross & Ross (INHS); CLALLAM: Elwha R, Elwha, 4-IX-1958, Edmunds & Allen (PERC), and South Branch Little R, 12-IX-2000 (RP); COLUMBIA: Cummings Cr, Wooten, 18-VIII-1993, and Tucannon R, Marengo, 18-VIII-1993 (RP), and Sheep Cr, 8-VI-1978, Zack & Turner (WSU), and Touche R, Wolf Fork, 21-II-1998 (RN); FERRY: 6 mi E Republic, 29-VII-1958, and Sherman Cr, 17-VIII-1964, Edmunds (PERC), and Bracken Cr, 29-VIII-2000 (EPA), and North Fork Hall Cr, 31-VII-2003 (RP); GRAYS HARBOR: Appletree Cr, 8-IX-1999, and Porter Cr, 14-VIII-2001 (RP), and Salmon R, 11-VII-2001 (EPA); JEFFERSON: Duckabush R, 15-VIII-2001 (RP); Hoh R, 9-VII-2003, and Snahapish trib, 13-VIII-2002 (EPA), and Willoughby Cr, 20-VI-1978, Brigham & Brigham (PERC); KING: Carey Cr, 17-VIII-1999, and Cedar R, Cedar Falls, 8-IX-1999, and Covington Cr, 11-X-1994, and Pussyfoot Cr, 21-VII-2003, and Taylor Cr, 13-X-1994 (RP), and Intake Cr, 2-VII-2003, and Lennox Cr, 8-VIII-2002 (EPA), and Silver Cr, 3-IX-1968, and White R, E Greenwater, 3-IX-1968, Koss (PERC), and Snoqualmie R, Hwy 203, 8-VIII-1967, Allen (CAS); KITTITAS: Bear Cr, 21-IX-1993, and Gold Cr, 10-X-1993, and Middle Fork Teanaway R, 25-VIII-2003, and Naneum Cr, 13-VIII-2002, and Umtanum Cr, 10-VIII-1993, and West Fork Teanaway R, 14-VIII-2002 (RP), and North Fork Wenas Cr, 13-VII-2000 (EPA); KLICKITAT: Badger Gulch Cr, 18-IV-1998, A,

and Rock Cr, Box Canyon Rd, 21-III-1998 (RN); LEWIS: Mineral Cr, 3-VII-2002, and Willame Cr, 7-VIII-2001 (EPA), and Ohanapecosh R, 27-VIII-1993 (RP); OKANOGAN: Chewack R, 11-VII-1997, and Methow R, Mazama, 11-IX-1997, and North Fork Toats Coulee Cr, 7-IX-1995, and South Fork Toats Coulee Cr, 5-IX-1995, and Twisp R, W Buttermilk Cr Rd, 10-IX-1997 (RP); PEND OREILLE: Gypsy Cr, 29-VII-2003, and North Fork Sullivan Cr, 6-VIII-1996, and Upper Slate Cr, 06-VIII-1996 (RP), and Middle Cr, 8-IV-1972, Nishimura (WSU); PIERCE: Carbon River Rd, Mt Rainier Natl Prk, 25-V-1995, Lechleitner, A (CSU), and Huckleberry Cr, 5-IX-1997 (RP), and Viola Cr, 12-VII-2001 (EPA); SKAGIT: Arrow Cr, 29-VIII-1998, and Bacon Cr, 6-IX-1998, and Tenas Cr, 7-IX-1997, Hill (AH), and Deer Cr, 20-IX-1995, and Diobsud Cr, 14-IX-1995, and Finney Cr, 12-IX-1995, and Little Deer Cr, 2-VIII-2001, and Marble Cr, 26-IX-2000 (RP), and O'Toole Cr, 15-IX-1999 (RP); SKAMANIA: Trapper Cr, 7-VIII-2002 (RP); SNOHOMISH: Buck Cr, 5-IX-1998, and Downey Cr, 12-IX-1998, and Peek-A-Boo Cr, 28-VIII-1998, Hill (AH), and Canyon Cr, 4-IX-2001, and Deer Cr, 20-IX-1995, and Grant Cr, 20-IX-1995, and Jim Cr, 3-VIII-2001, and North Fork Stillaguamish R, Hazel, 1-VIII-2001 (RP), and Wallace R, 4-IV-1986, Zack & Zack (WSU); SPOKANE: Deadman Cr, 7-VII-1962, Edmunds (PERC), and Little Spokane R, Chattaroy, 5-X-1994 (RP); STEVENS: Chewelah Cr, 8-VIII-1996, and Colville R, 17-VII-2003, and Deer Cr, 17-VII-2003, and Stensgar Cr, 17-VII-2003 (RP); THURSTON: Monroe Cr, 8-IX-1999 (RP); WAHKIAKUM: West Fork Grays R trib, 8-VIII-2002 (RP); WHATCOM: Austin Cr, 11-VII-2002, and Chuckanut Cr, 11-VII-2002, and Lightning Creek, 9-IX-1999, and Newhalem Cr, 11-IX-2000 (RP), and Bacon Cr, 6-IX-1998, and Noosack R, 19-IX-1999, Hill, and Ruby Cr, North Cascades Natl Prk, 9-IX-2001, Rawhouser (AH); WHITMAN: Palouse R, 20-VIII-1993 (RP); YAKIMA: American R, Bumping R Rd, 24-VII-2002, and Rattlesnake Cr, 10-VIII-1993 (RP), and Brush Cr, 11-VII-2000, and Oak Cr, 20-VII-2000 (EPA), and Rimrock Lake, 12-VI-1973, Turner et al. (WSU).

Epeorus permagnus (Traver)

New data.—PIERCE: Paradise Ice Cones, Mt Rainier Natl Prk, 20-VIII-1996, Lechleitner, and Spray Cr, Mt Rainier Natl Prk, 13-VIII-2003, Grove, A (CSU).

Heptagenia elegantula (Eaton)

New data.—ASOTIN: 4 mi S Anatone, 25-V-1976, Turner, and Asotin Cr, 5-IV-1937, Knott, and Grande Ronde R trib, 15-IV-1978, Zack (WSU); FERRY: 5 mi S Laurier, 10-V-1967, Gerber (WSU); GARFIELD: Asotin Cr, IV-1945 (WSU); PIERCE: Ohop Cr, Earonvine, 19-VI-1948, Denning (PERC); WHITMAN: Pullman, 4-I-1902 (WSU).

Heptagenia solitaria McDunnough

Previous data.—Bednarik and Edmunds (1980): SPOKANE (Little Spokane R).

New data.—BENTON: Columbia R, 15-VII-1998, A, and Richland, 24-VI-2000, A (RN); JEFFERSON: Red Cr, 3-IX-1958, Edmunds & Allen, A (PERC); PIERCE: Ohop Cr, Earonvine, 19-VI-1948, Denning (PERC); STEVENS: Colville R, Arden, 17-VIII-1964, Edmunds (PERC); WHITMAN: Glenwood, 1-V-1973, Bordasch, A (WSU).

Ironodes californicus (Banks)

New data.—ASOTIN: Grande Ronde R trib, 15-IV-1978, Zack (WSU); CLALLAM: Crescent Lake trib, 18-VI-1967, Baumann, and Indian Cr, Lake Aldwell, 18-VI-1978, Brigham & Brigham (PERC); CLARK: Little Washougal R, Hwy 140, 1-III-1984, Baumann & Nelson (BYU); COLUMBIA: Sheep Cr, 8-VI-1978, Zack & Turner, and Tucannon R, 27-I-1974, Woodley (WSU); GRAYS HARBOR: Cedar Cr, 29-XI-1998, LeVering & LeVering (BYU); LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 16-V-2001, Kondratieff (CSU); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936, (WSU); WHITMAN: Glenwood, 1-V-1973, Bordsasch, A (WSU); YAKIMA: Rimrock Lake, 12-VI-1973, Turner et al. (WSU).

Ironodes nitidus (Eaton)

Previous data.—Plotnikoff and Ehinger (1997): CLALLAM (Siebert Cr, South Branch Little R), LEWIS (Simmons Cr), PIERCE (Elbe Site), SNOHOMISH (Jim Cr).

New data.—KING: Covington Cr, 11-X-1994, and Newaukum Cr, 212th St, 3-IX-1997 (RP); LEWIS: Falls Cr, Hwy 706, Mt Rainier Natl Prk, 15-VI-1968, Baumann (PERC); OKANOGAN: Cecile Cr, 28-VIII-1997, and Loup Loup Cr, 10-IX-1997, and Middle Fork Toats Coulee Cr, 8-IX-1995, and North Fork Toats Coulee Cr, 7-IX-1995, and Sarsapkin Cr, 8-IX-1995, and South Fork Salmon Cr, 9-IX-1997, and South Fork Toats Coulee Cr, 5-IX-1995 (RP); PEND OREILLE: North Fork Sullivan Cr, 6-VIII-1996, and Upper Slate Cr, 6-VIII-1996 (RP); PIERCE: South Prairie Cr, Burnett, 9-III-1997, and Tahana Creek trib, Westside Rd, 8-VII-1999, Kondratieff (CSU); WHATCOM: Breckenridge Cr, South Pass Rd, 12-IX-1996, and Hutchinson Cr, 10-IX-1996, and Thompson Cr, 16-IX-1996 (RP).

Maccaffertium terminatum (Walsh)

Previous data.—Bednarik and McCafferty (1979): ASOTIN (Snake R).

New data.—BENTON: Columbia R, 3-VII-1998, A, and Yakima R, 16-VII-2003 (EPA); WHITMAN: Palouse R, Endicott St John Rd, 26-VIII-1993 (USGS), and South Fork Palouse R, Pullman, 19-IV-1940, Story (WSU); YAKIMA: Toppenish Cr, White Swan, 9-XI-1990, Fend (SF).

Rhithrogena flavianula (McDunnough)

New data.—LEWIS: Nisqually R, Longmire, 3-VII-1942, A (PERC); PIERCE: Nisqually R, Longmire, 3-VII-1942, A (PERC).

Rhithrogena hageni Eaton

Previous data.—Plotnikoff and Ehinger (1997): CLALLAM (Dungeness R, Lyre R, Siebert Cr, S Br Little R), JEFFERSON (Duckabush R), KING (Bear Cr, Cedar R, Covington Cr, Green R), KITSAP (Seabeck Cr), KITTITAS (Gold Cr, Middle Fork Teanaway R), LEWIS (Ohanapecosh R, Simmons Cr), PIERCE (Elbe Site), SKAMANIA (Trapper Cr), YAKIMA (American R, Indian Cr, Little Naches R).

New data.—ASOTIN: Asotin Cr, 18-III-1978, Zack, and Grande Ronde R, 22-IV-1972, Turner (WSU); CLALLAM: Sol Duc, 15-VII-1965, Rics, A (LACM); COLUMBIA: 15 mi NE Dayton, 29-V-1940, Wooten, and Tucannon Fish Hatch-

ery, 13 mi SW Pomeroy, 22-III-1986, Zack & Zack (WSU); GRAYS HARBOR: West Fork Hoquiam R, 3 mi N New London, 2-IX-1958, Edmunds & Allen (PERC); JEFFERSON: North Fork Quinalt R, Olympic Natl Prk, 3-IX-1958, Edmunds & Allen (PERC); KING: Greenwater R, 11-VI-1967, Baumann (PERC); KITTITAS: Bear Cr, 12-X-1994, and Little Naches R, 20-IX-1993 (RP), and Yakima R, 2-XI-1990, Fend (SF); MASON: Hamma Hamma R, Olympic Natl Prk, 4-IX-1958, Edmunds & Allen (PERC); PEND OREILLE: Middle Cr, 21 mi S Ione, 5-IV-1972, Nishimura (WSU); PIERCE: Dry Cr, Mt Ranier Natl Prk, 28-VII-1997, Leclitner, A, and West End Rd, Mt Rainier Natl Prk, 12-VIII-1977, Turner, A (WSU); SKAGIT: Bear Cr, 8-VIII-2000, and Cascade R, 26-IX-2000, Hill, and Granite Cr, Easy, 27-VIII-2001, Rawhouser (AH); SNOHOMISH: Wallace R, 4-IV-1986, Zack & Zack (WSU); WALLA WALLA: Touchet R, 25-II-1978, Zack & Zack (WSU); WHATCOM: Chilliwack R, 16-IX-1999 (RP), and Goodell Cr, North Cascades Natl Prk, 14-IX-2000, and Little Chilliwack Camp, North Cascades Natl Prk, 16-IX-1999, and Panther Cr, North Cascades Natl Prk, 13-IX-2000, Hill (AH). WHITMAN: South Fork Palouse R, Pullman, 19-IV-1940, Story (WSU); YAKIMA: North Fork Wenas Cr, 2-XI-1990, Fend (SF).

Rhithrogena morrisoni (Banks)

Previous data.—O'Laughlin (1988): STEVENS (Chamokane Cr).

New data.—ASOTIN: Asotin Cr, 6 mi W Asotin, 20-IV-1986, Zack & Zack, A (WSU); CHELAN: Nanson Cr, Wenatchee St Prk, 25-V-1969, Minor & Baumann, A (PERC); CLALLAM: Sol Duc, 16-VI-1965, Rice, A (LACM); COLUMBIA: South Fork Touchet R, 22-IV-1948, Davis, A (CAS), and Touche R, 5 mi W Dayton, 4-IV-1998, A, and Tucannon R, 25-I-1998 (RN); KING: Green R, 6-IV-1941, Lambuth, A, and Snoqualmie R, 22-IV-1939, Lambuth, A (CAS); LEWIS: Big Creek Camp, 4.4 km SE Ashford, 2-VII-1974, Arnaud, A (CAS); SKAGIT: Bacon Cr, 30-VII-1986, Courtney, A (PERC); SNOHOMISH: Skykomish R, 7-III-1941, Lambuth, A (CAS); YAKIMA: American R, 28-VII-2000, A, and Sadis Cr, 25 mi S Toppenish, 21-III-1998, A (RN).

Rhithrogena robusta Dodds

Previous data.—Plotnikoff and Ehinger (1997): SNOHOMISH (Long Cr).

New data.—BENTON: Yakima R, Umtanum Rd, 9-VIII-1993 (RP); CHELAN: Company Cr, North Cascades Natl Prk, 19-IX-2001, Rawhouser (AH), and Icicle Cr trib, 29-V-1976, Hogue (LACM), and Jack Cr, 22-IX-2000 (RP), and Wenatchee R, Chiwaukum, 24-VI-1940, Ross & Ross (INHS); CLALLAM: Boulder Cr, Olympic Natl Prk, 19-VI-1978, Brigham & Brigham, and Elwha R, Elwha, 4-IX-1958, Edmunds & Allen (PERC), and Dungeness R, 19-IX-1994, and Lyre R, 20-IX-1994, and South Branch Little R, 20-IX-1994 (RP); COLUMBIA: Cummings Cr, Wooten, 20-IX-2000 (RP), and Sheep Cr, 8-VI-1978, Zack & Turner, and Tucannon CG, 27-I-1974, Woodley (WSU); GRAYS HARBOR: Appletree Cr, 11-IX-2000 (RP); JEFFERSON: Duckabush R, 19-IX-1994 (RP); KING: Cedar R, 13-X-1994 (RP), and Hall Cr, Snoqualmie Pass, 26-V-1976, Hogue (LACM), and Silver Cr, 3-IX-1968, and White R, Greenwater, 3-IX-1968, Koss (PERC); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KITTITAS: Bear Cr, 29-IX-2000, and Middle Fork Teanaway R, 22-IX-2000, and South Fork Manastash Cr, 21-IX-2000 (RP), and Gold Cr, 2-XI-1990, Fend (SF), and Lake Kachess, 30-

V-1976, Hogue (LACM), and Manashtash Cr, 9 mi WNW Ellensburg, 27-IV-1979, Butcher & Wetzel (INHS); LEWIS: Paradise R, 23-VII-2000, Lechleitner, A (CSU), and Simmons Cr, 13-IX-1993, and Stillman Cr, Boistfort, 27-IX-2000 (RP); PEND OREILLE: Middle Cr, 21 mi S Ione, 5-IV-1972, and North Fork Sullivan Cr, 19-IX-2000, and Upper Slate Cr, 19-IX-2000 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP), and Frying Pan Cr, Wonderland, 29-VI-2000, Lechleitner, A (CSU), and Sivler Cr, Hwy 410, 11-VI-1967, Baumann, and White R, Mt Rainier Natl Prk, 3-IX-1968, Koss & Koss (PERC); SKAGIT: Bear Cr, 8-VIII-2000, and Cascade R, 26-IX-2000, Hill, and Day Cr, 8-IX-2001, Rawhouser (AH), and Deer Cr, 20-IX-1995, and Diobsud Cr, 14-IX-2000 (RP); SKAMANIA: Bear Cr, Carson, 4-X-2000, and Trapper Cr, 5-X-2000 (RP); SNOHOMISH: Dan Cr, 17-VIII-2001, Rawhouser (AH), and Deer Cr, 20-IX-1995 (RP); WALLA WALLA: Mill Cr, 5 mi SW Walla Walla, 26-II-1972, Lagier (WSU); WHATCOM: Austin Cr, 14-IX-2000, and Bacon Cr, 13-IX-2000 (RP), and Bagley Cr, Shuksan, 24-VII-1936, and Razorhone Cr, Shuksan, 24-VII-1936, Ross (INHS), and Brush Cr, North Cascades Natl Prk, 16-IX-1998, and Indian Cr, North Cascades Natl Prk, 15-IX-1998, Hill, and Thunder Cr, North Cascades NP, 31-X-1995, Glesne & Zyskowski (AH); YAKIMA: American R, Hells Crossing, 29-IX-2000, and South Fork Tieton R, 28-IX-2000 (RP), and South Fork Simcoe Cr, 9-XI-1990, Fend (SF).

Rhithrogena undulata (Banks)

New data.—KITTTITAS: Yakima R, Reds, A (RN).

Leptohyphidae

Tricorythodes explicatus (Eaton)

New data.—ASOTIN: Snake R, Washington-Idaho border, nr Lewiston, 30-VIII-1951, Wilson (PERC).

Tricorythodes minutus Traver

Previous data.—Allen and Murvosh (1987): GRAYS HARBOR (nr Montasano), SPOKANE (Little Spokane R); O'Laughlin (1988): STEVENS (Chamokane Cr).

New data.—BENTON Columbia R, 15-VII-1998, A (RN), and Yakima R, 26-VIII-1993 (RP); COLUMBIA: Touchet River, Lewis & Clark St Prk, 18-IX-2002, and Tucannon R, Marengo, 18-VIII-1993 (RP); GRANT: Lower Crab Cr, McManamon Rd, 11-VIII-1993, and Sand Dunes Stream (unnamed), 11-VIII-1993 (RP); KITTTITAS: Squaw Cr, Canyon Rd, 10-VIII-1993 (RP); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP); PIERCE: Elbe Site (unnamed), 1-IX-1994 (RP); SPOKANE: Deer Prk, 10-VIII-1957, A (CAS), and Dragoon Cr, 5-X-1994, and Hangman Cr, Bradshaw Rd, 12-VIII-2003, and Rock Cr, Jackson Rd, 14-VIII-2003 (RP); STEVENS: Deep Cr, 7-VIII-1996 (RP); WALLA WALLA: Touchet R, Cummins Rd, 11-IX-2002 (RP); WHITMAN: Hangman Cr, Tekoa, 14-VIII-2003 (RP); YAKIMA: Ahtanum Cr, 62nd Ave, 23-VIII-2002, and Rattlesnake Cr, 10-VIII-1993, and Terrace Heights Pond, 10-IX-2002, and Wide Hollow Cr, 23-VIII-2001, and Yakima R, 5-IX-2002 (RP).

Leptophlebiidae

Leptophlebia cupida (Say)

Previous data.—Burian (2001): SPOKANE (Spokane), STEVENS (Loon Lake).

New data.—SPOKANE Liberty Lake, 24-V-1961, Ramsey (WSU); WHITMAN: 4 Mile Cr, 5-VII-1955, Coffey, and Pullman, 12-V-1973, Hansen, A, and Rock Lake, 30-IV-1949 (WSU).

Paraleptophlebia bicornuta (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): COLUMBIA (Tucannon R), KITTITAS (Middle Fork Teanaway R, Swauk Cr); O'Laughlin (1988): STEVENS (Chamokane Cr).

New data.—CLALLAM: Ennis Cr, Port Angeles, 4-IX-1958, Edmunds & Allen (PERC); COLUMBIA: Touchet R, 12-IX-1998 (RN); GRAYS HARBOR: Stevens Cr, Donkey Rd, 2-IX-1958, Edmunds & Allen, A (PERC); KING: Newaukum Cr, 212th St, 3-IX-1997 (RP); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KITTITAS: Gladmar Pond, 12-IX-2002, and Gold Cr, 10-X-1993, and Little Naches R, 20-IX-1993, and Umtanum Cr, Durr Rd, 12-VIII-2002 (RP); KLUCKITAT: Little Klickitat R, Hwy 97, 22-VIII-2002 (RP), and Rock Cr, 5-IX-1950, Preece (PERC); MASON: Tahuya R, 15-IX-1994 (RP); SKAGIT: Childs Cr, 13-IX-1998, Hill (AH), and Deer Cr, 20-IX-1995, and Diobsud Cr, 14-IX-1995, and Samish R, 15-IX-1995 (RP); SNOHOMISH: Catherine Cr, 16-IX-1998, and Deer Cr, 20-IX-1995, and Little Pilchuck Cr, 16-IX-1997, and Woods Cr, Woods Cr Rd, 16-IX-1997 (RP); SPOKANE: Rock Cr, Jackson Rd, 14-VIII-2003 (RP); WHATCOM: Breckenridge Cr, South Pass Rd, 12-IX-1996, and Squalicum Cr, 11-IX-1996 (RP); YAKIMA: Ahtanum Cr, 62nd Ave, 23-VIII-2002, and Rattlesnake Cr, 10-VIII-1993, and Terrace Heights Pond, 10-IX-2002, and Yakima R, 4-IX-2002 (RP).

Paraleptophlebia brunneipennis (McDunnough)

Previous data.—McDunnough (1924): WHITMAN (Rock Lake).

Remarks.—Although there are Rock Lakes in five different counties in Washington, we believe the county of record for the Rock Lake where *P. brunneipennis* was taken is Whitman County, because McDunnough's (1924) material was collected in 1944 at what was then Washington State College at Pullman, Whitman County, and although not stated, the county was probably taken for granted for the local Rock Lake. Also, it is the only Rock Lake for which there are other species records herein.

Paraleptophlebia debilis (Walker)

New data.—COWLITZ: Toutle R, Spirit Lake, 21-VIII-1969, Ross & Ross, A (PERC); KING: Covington Cr, 11-X-1994 (RP), and Skykomish R, 4 mi E Skykomish, 18-VII-1977, Turner, A (WSU); LEWIS: Millridge Cr, White Pass, 18-VII-1988, Fiala, A (BYU); LINCOLN: Crab Cr, Marcellus Rd, 13-IX-1994 (USGS); MASON: Tahuya R, 15-IX-1994 (RP); PIERCE: Carbon River, Mt Rainier Natl Prk, 20-IX-1997, Lechleitner, A (CSU), and Ft Lewis, Hwy 507, 12-VI-1968, A, and Ohop Cr, Hwy 7, 14-VI-1969, A, and Tenus Cr, Hwy 706, 14-VI-1969, Baumann, A (PERC); SAN JUAN: Deadman Cr, San Juan Island, 19-

V-1978, Baumann (BYU); SKAGIT: Diobsud Cr, 14-IX-1995, and Finney Cr, 12-IX-1995, and Illabot Cr, 12-IX-1995, and Samish R, 15-IX-1995 (RP); SNOHOMISH: Grant Cr, 20-IX-1995, and Jim Cr, 19-IX-1995, and Long Cr, 19-IX-1995, and Portage Cr, 18-IX-1995 (RP); YAKIMA: American R, 10 mi E Chinook Pass, 12-VII-1977, Turner, A (WSU).

Paraleptophlebia falcula Traver

New data.—UMATILLA: South Fork Walla Walla R, 5 mi E Harris Prk, 7-VIII-1998, A (RN).

Paraleptophlebia heteronea (McDunnough)

Previous data.—Plotnikoff and Ehinger (1997): SKAGIT (Deer Cr, Illabot Cr), SNOHOMISH (Jim Cr, Long Cr, Portage Cr).

New data.—ASOTIN Field Springs St Prk, P, 7-VI-1971, Turner et al. (WSU); CLALLAM: Lyre R, 20-IX-1994, and South Branch Little R, 20-IX-1994 (RP); JEFFERSON: Duckabush R, 19-IX-1994 (RP); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KLICKITAT: Halter Gulch Cr, 18-IV-1998, A, and Rock Cr, 18-IV-1998, A (RN); LEWIS: Simmons Cr, 31-VIII-1994 (RP); MASON: Tahuya R, 15-IX-1994 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP); SNOHOMISH: Deer Cr, 20-IX-1995 (RP); WHITMAN: Steptoe Canyon, 8 mi S Colton, 18-II-1972, Turner (WSU).

Paraleptophlebia jenseni McCafferty and Kondratieff

Previous data.—McCafferty and Kondratieff (1999): KLICKITAT (Badger Gulch Cr, Holter Gulch Cr, Rock Cr).

Paraleptophlebia memorialis (Eaton)

Previous data.—Plotnikoff and Ehinger (1997): SNOHOMISH (Jim Cr, Long Cr); O'Laughlin (1988): STEVENS (Chamokane Cr).

New data.—CLALLAM: Ennis Cr trib, 5 mi S Port Angeles, 19-VI-1978, and Indian Cr, Lake Aldwell, 18-VI-1978, Brigham & Brigham (PERC), and Lyre R, 20-IX-1994, and South Branch Little R, 20-IX-1994 (RP); JEFFERSON: Cannings Cr, Olympic Natl Prk, 21-VI-1978, Brigham, and Taft Cr, Olympic Natl Prk, 20-VI-1978, Brigham & Brigham (PERC), and Duckabush R, 19-IX-1994 (RP); KING: Cedar R, 13-X-1994, and Covington Cr, 11-X-1994, and Green R, Kanasket, 29-IX-1994 (RP), and South Fork Snoqualmie R, Hwy 90, 6-V-1982, Baumann & Cox (BYU); KITSAP: Seabeck Cr, 15-IX-1994 (RP); KITTITAS: Yakima R, 2-XI-1990, Fend (SF); LEWIS: Simmons Cr, 13-IX-1993 (RP); MASON: Big Cr, L Cushman, 18-VI-1978, Brigham & Brigham (PERC), and Tahuya R, 15-IX-1994 (RP); OKANOGAN: 8 Mile Cr, Winthrop, 24-VI-1936, (WSU); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP); SKAGIT: Illabot Cr, 12-IX-1995 (RP); SPOKANE: Dragoon Cr, 5-X-1994 (RP); WHITMAN: Snake R, Wawawai, 28-III-1948 (WSU); YAKIMA: Middle Fork Little Naches R, 5-XI-1990, Fend (SF); Rimrock Lake, 12-VI-1973, Turner et al., and Ticton R, 12-VI-1973, Corredor (WSU).

Paraleptophlebia placeri Mayo

New data.—GRAYS HARBOR: Raft R, Hwy 101, Queets, 18-VI-1967, Baumann (PERC).

Paraleptophlebia temporalis (McDunnough)

New data.—CLALLAM: Siebert Cr, 21-IX-1994 (RP); COLUMBIA: Cummings Cr, Wooten, 18-VIII-1993, and Tucannon R, Marengo, 18-VIII-1993 (RP); GRAYS HARBOR: Appletree Cr, 8-IX-1999, and Cook Cr, 9-IX-1999 (RP); KING: Big Bear Cr, 14-IX-1999, and Cedar R, Cedar Falls, 8-IX-1999, and Covington Cr, 11-X-1994, and Harris Cr, 13-IX-1999, and Rock Cr, Summit-Landsberg Rd, 9-IX-1999 (RP); KITTITAS: Bear Cr, 12-X-1994, and Gold Cr, 10-X-1993, and Little Naches R, 20-IX-1993, and Middle Fork Teanaway R, 13-VIII-1993, and Swauk Cr, Mineral Springs, 13-VIII-1993, and Umtanum Cr, Durr Rd, 21-IX-2000 (RP); LEWIS: Butter Cr, 27-VIII-1993, and Simmons Cr, 13-IX-1993 (RP); MASON: Tahuya R, 10-IX-1999, and Upper Tahuya R, 10-IX-1999 (RP); PIERCE: Elbe Site (unnamed), 11-X-1993 (RP); SKAGIT: O'Toole Cr, 15-IX-1999 (RP); SKAMANIA: Trapper Cr, 16-VIII-1993 (RP); SNOHOMISH: Jim Cr, 14-IX-1999, and Woods Cr, Woods Cr Rd, 13-IX-1999 (RP); THURSTON: Monroe Cr, 8-IX-1999 (RP); WHATCOM: Chuckanut Cr, 15-IX-1999, and Deer Cr, Deer Creek Dr, 15-IX-1999 (RP); YAKIMA: Oak Cr, 28-IX-2000, and Rattlesnake Cr, 10-VIII-1993 (RP).

Paraleptophlebia vaciva (Eaton)

New data.—OKANOGAN 9 mi NW Conconully, Salmon Meadows, 23/26-VII-1975, Turner, A (WSU); SPOKANE: Deadman Cr, Mt Spokane, 11-VII-1970, Edmunds, A (PERC).

Traverella albertana (McDunnough)

Previous data.—Allen (1973): BENTON (Columbia R), WALLA WALLA (Walla Walla R).

New data.—ASOTIN: Snake R, Washington-Idaho border, nr Lewiston, 30-VII-1951, Wilson (PERC).

Polymitarciidae

Ephoron album (Say)

Previous data.—McDunnough (1926): WHITMAN (Pullman).

New data.—BENTON: Yakima R, 15-VIII-1998, A (RN); WHITMAN: Palouse R, Endicott St John Rd, Colfax, 26-VIII-1993 (USGS).

Siphonuridae

Parameletus columbiae McDunnough

Previous data.—O'Laughlin (1988): STEVENS (Chamokane Cr).

Remarks.—The inclusion of this species in Washington remains provisional because we have yet to see additional data that would confirm the unpublished report. It is, however, known from the adjacent Canadian province of British Columbia (McDunnough 1938).

Siphonurus autumnalis McDunnough

Previous data.—Jacobus and McCafferty (2001): CLALLAM (Elwha R), GRAYS HARBOR (East Fork Humptulips R), JEFFERSON (Quinalt R), LEWIS (Skate Cr), PIERCE (Greenwater R).

New data.—CLALLAM: Ennis Cr, Port Angeles, 4-IX-1958, Edmunds & Allen (CAS).

Siphonurus columbianus McDunnough

New data.—CLALLAM: Indian Cr, L Aldwell, 18-VI-1978, Brigham (PERC); OKANOGAN: Black Lake, 4-VII-1936, Edwards (WSU).

Siphonurus occidentalis (Eaton)

Previous data.—Traver (1935): GRANT (Trinidad).

New data.—LEWIS: Ohanapecosh R, Mt Rainier Natl Prk, 16-VIII-1997, Doporiak, A (CSU); PIERCE: Ohanapecosh R, Mt Rainier Natl Prk, 23-VII-1996, Lafrancois, A (CSU).

Siphonurus spectabilis Traver

New data.—ASOTIN: Asotin Cr, 13-IV-1940, White (WSU); FERRY: Sweat Cr Camp, 9 mi W Republic, 28-VII-1973, Turner & Corredor (WSU).

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