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A Checklist of Turkish Rotifers

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Abstract: In a book chapter containing the first checklist and distribution of Turkish rotifers, published in 1999, were listed 167 taxa. The second checklist, published in 2004, reported 229 rotifer taxa in Turkey. During the 7 years since this checklist process, many studies have been carried out and we have prepared a new checklist of Turkish rotifers in the present study. In all, 341 rotifer taxa have been recorded to date.

Key words: Checklist, Rotifera, inland waters, Turkey

Introduction

The phylum Rotifera is divided into 3 groups: Monogononta, Bdelloidea, and Seisonida. Monogonont rotifers live mainly in freshwater and 1570 species are known worldwide (Segers, 2007; Wilts et al., 2010). Bdelloid rotifers, which have 461 strictly parthenogenetic species known worldwide, can live in aquatic and terrestrial habitats (such as mosses, lichens, barks, and soil) (Segers, 2007). Only

3 species known to belong to Seisonida live among marine ecosystems (Segers, 2007). Rotifers living in aquatic ecosystems are the second ring in the food chain and they give information about water quality. Rotifers, which take part in energy flow, live in terrestrial habitats (Ward et al., 1998). Although Monogonont rotifers attract great attention from scientists in Turkey, only one detailed study on bdelloids has been carried out (Kaya et al., 2009a). No study has been done on Seisonida in Turkey yet.

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Materials and methods

All published papers and theses from 1903 to 2011 were examined. Sixty-nine papers were used in the checklist by Ustaoglu (2004). In addition, 68 published studies between 2004 and 2011 have been added. The species list containing the checklist by Ustaoglu (2004) was revised again according to Segers (2007) and some subspecies were removed. Taxonomically species and author names were written according to Segers (2007).

The studies performed concerning the rotifers of Turkish inland waters: Daday (1903), Vavra (1905), Zederbauer and Brehm (1907), Mann (1940), Geldiay (1949), Hauer (1957), Margaritora and Cottorelli (1970), Geldiay and Tareen (1972), Tokat (1975), Tokat (1976), Margaritora et al. (1977), Dumont (1981), Ongan (1981), Ongan (1982), DSİ (1983), Gündüz (1984), DSİ (1986), Ustaoglu (1986), Ustaoglu and Balık (1986), Dumont and De Ridder (1987), Özemesi (1987), Rahe and Pelister (1987), Emir (1989), Emir (1990), Ustaoglu and Balık (1990a, 1990b), Emir (1991), Kazancı et al. (1992), Segers et al. (1992), TÇV (1993), Balık and Ustaoglu (1993), Ustaoglu (1993), Bekleyen and Bilgin (1994), Emir (1994a, 1994b), Ustaoglu and Akyürek (1994), Altındağ and Sözen (1996), TKB (1996), Emir and Demirsoy (1996), Ustaoglu et al. (1996), Altındağ (1997), Göksu et al. (1997), Yerli et al. (1997), Mitamura et al. (1997), Altındağ and Özkurt (1998), Akbulut (Emir) and Demirsoy (1998-99), Emir (1999), Altındağ (1999), Altındağ and Yiğit (1999a, 1999b), Balık et al. (1999), Akbulut (Emir) (2000), Akbulut and Akbulut (2000), Altındağ (2000), Bozkurt and Göksu (2000), Saler (Emiroğlu) et al. (2000), Yıldız and Ekingen (2000), Akbulut (Emir) (2001), Altındağ and Yiğit (2001), Bekleyen (2001), Saler (Emiroğlu) and Şen (2001), Akbulut (Emir) and Akbulut (2002), Altındağ and Yiğit (2002), Bozkurt et al. (2002), Saler and Şen (2002a, 2002b), Tellioglu and Şen (2002), Yiğit (2002), Bekleyen (2003), Akbulut and Akbulut (2003), Altındağ and Yiğit (2004), Balık et al. (2004), Bozkurt (2004a, 2004b), Bozkurt et al. (2004), Güher et al. (2004), Ölmez Aydın and Altındağ

(2004), Saler (2004), Ustaoglu et al. (2004), Akbulut (Emir) and Yıldız (2005), Altındağ et al. (2005), Bozkurt and Dural (2005), Demir (2005), Erdoğan and Güher (2005), Saygı (Başbuğ) and Yiğit (2005), Ustaoglu et al. (2005), Yiğit and Altındağ (2005), Balık et al. (2006), Baykal et al. (2006), Bozkurt (2006), Türkmen et al. (2006), Yalım (2006), Yiğit (2006), Akbulut (Emir) and Kaya (2007), Demir et al. (2007), Didinen and Boyacı (2007), Ince et al. (2007), Kaya and Altındağ (2007a, 2007b, 2007c), Kaya et al. (2007), Tellioglu and Akman (2007), Yıldız et al. (2007), Atıcı et al. (2008), Bekleyen and Taş (2008), Bozkurt and Sagat (2008), Güher and Erdoğan (2008), Kaya et al. (2008), Okgerman (2008), Özbay and Kılınç (2008), Ustaoglu et al. (2008), Altındağ et al. (2009a, 2009b), Aygen et al. (2009), Dirican and Musul (2009), Kaya and Altındağ (2009), Kaya et al. (2009a, 2009b), Özbay and Altındağ (2009), Özdemir Mis et al. (2009), Özdemir Mis and Ustaoglu (2009), Saler (2009), Bekleyen and Ipek (2010), Bozkurt and Güven (2010), Bozkurt and Göksu (2010), Buyurgan et al. (2010), Demirkalp et al. (2010), Gülle et al. (2010), Kaya and Altındağ (2010), Kaya et al. (2010a, 2010b), Saler and Şen (2010), Saler et al. (2010a, 2010b), Yıldız et al. (2010), Saler and Haykır (2011), Saler (2011), Bozkurt and Tepe (2011).

Results and discussion

As a result of the studies conducted on rotifers in Turkey, the presence of 341 taxa has been reported (Table). The genus *Lecane* is dominant with 46 species, followed by *Cephalodella* (22 species), *Trichocerca* (21 species), *Brachionus* (15 species), *Lepadella* (13 species), and *Macrotrachela* (11 species).

The examination of previous literature in Turkey has revealed the occurrence of a total of 341 taxa, comprising 48 bdelloids (14.08%) and 293 monogononts (85.92%). Eighty-nine of them have been recorded from more than 10 localities, 43 taxa from 6-10 localities, and 209 taxa from 1-5 localities.

Table. Checklist of Rotifera in Turkish Inland Waters. [* Recorded species after Ustaoglu (2004)]

GENUS	SPECIES	
<i>Adineta</i> Hudson & Gosse, 1886	<i>A. gracilis</i> Janson, 1893*	+
	<i>A. steineri</i> Bartos, 1951*	+
	<i>A. vaga</i> (Davis, 1873)	+
<i>Anuraeopsis</i> Lauterborn, 1900	<i>A. coelata</i> de Beauchamp, 1932	++
	<i>A. fissa</i> Gosse, 1851	+++
	<i>A. navicula</i> Rousselet, 1911*	+
<i>Ascomorpha</i> Perty, 1850	<i>A. ecuadis</i> Perty, 1850	+++
	<i>A. ovalis</i> (Bergendahl, 1892)	+++
	<i>A. saltants</i> Bartsch, 1870	+++
<i>Ascomorphella</i> Wiszniewski, 1953	<i>A. volvocicola</i> (Plate, 1886)*	+
<i>Aspelta</i> Harring & Myers, 1928	<i>A. labri</i> Harring & Myers, 1928*	+
<i>Asplanchna</i> Gosse, 1850	<i>A. brightwelli</i> Gosse, 1850	++
	<i>A. girodi</i> de Guerne, 1888	+++
	<i>A. priodonta</i> Gosse, 1850	+++
	<i>A. sieboldi</i> (Leydig, 1854)	+++
	<i>A. silvestrii</i> Daday, 1902	+
<i>Asplanchnopus</i> de Guerne, 1888	<i>A. dahlgreni</i> Myers, 1934	+
	<i>A. hyalinus</i> Harring, 1913*	+
	<i>A. multiceps</i> (Schrank, 1793)*	+
<i>Beauchampiella</i> Remane, 1929	<i>B. eudactylota</i> (Gosse, 1886)*	+
<i>Brachionus</i> Pallas, 1766	<i>B. angularis</i> Gosse, 1851	+++
	<i>B. bidentatus</i> Anderson, 1889	+++
	<i>B. budapestinensis</i> Daday, 1885	++
	<i>B. calyciflorus</i> Pallas, 1766	+++
	<i>B. caudatus</i> Barrois & Daday, 1894	+
	<i>B. diversicornis</i> (Daday, 1883)	+++
	<i>B. falcatus</i> Zacharias, 1898	+++
	<i>B. forficula</i> Wierzejski, 1891	+
	<i>B. leydigii</i> Cohn, 1862	+++
	<i>B. plicatilis</i> Müller, 1786	+++
	<i>B. quadridentatus</i> Hermann, 1783	+++
	<i>B. rubens</i> Ehrenberg, 1838	++
	<i>B. sessilis</i> Varga, 1951	+
	<i>B. urceolaris</i> Müller, 1773	+++
<i>B. variabilis</i> Hempel, 1896	+	
<i>Cephalodella</i> Bory de St. Vincent, 1826	<i>C. auriculata</i> Müller, 1773	+
	<i>C. catellina</i> (Müller, 1786)	+++

Table. Continued

	<i>C. cf. forceps</i> Donner, 1949*	+
	<i>C. delicata</i> Wulfert, 1937*	+
	<i>C. eva</i> (Gosse, 1887)*	+
	<i>C. exigua</i> (Gosse, 1886)	+
	<i>C. fluviatilis</i> (Zawadovsky, 1926)	+
	<i>C. forficula</i> (Ehrenberg, 1830)	+++
	<i>C. gibba</i> (Ehrenberg, 1830)	+++
	<i>C. gibboides</i> Wulfert, 1950*	+
	<i>C. gracilis</i> (Ehrenberg, 1830)	+
	<i>C. intuta</i> Myers, 1924*	+
	<i>C. maior</i> (Zawadovsky, 1926)*	+
	<i>C. megalcephala</i> (Glascott, 1893)*	+
	<i>C. megalotrocha</i> Wiszniewski, 1934*	+
	<i>C. misgurnus</i> Wulfert, 1937*	+
	<i>C. plicata</i> Myers, 1924	+
	<i>C. segersi</i> De Smet, 1998*	+
	<i>C. sterea</i> (Gosse, 1887)	++
	<i>C. stenroosi</i> Wulfert, 1937*	+
	<i>C. tenuiseta</i> (Burn, 1890)*	+
	<i>C. ventripes</i> (Dixon-Nuttall, 1901)	+++
Collotheca Harring, 1913	<i>C. mutabilis</i> (Hudson, 1885)	+++
	<i>C. ornata</i> (Ehrenberg, 1832)	++
	<i>C. pelagica</i> (Rousselet, 1893)	++
	<i>C. tenuilobata</i> (Anderson, 1889)*	+
Colurella Bory de St. Vincent, 1824	<i>C. adriatica</i> Ehrenberg, 1831	+++
	<i>C. colurus</i> (Ehrenberg, 1830)	+++
	<i>C. obtusa</i> (Gosse, 1886)	+++
	<i>C. uncinata</i> (Müller, 1773)	+++
	<i>C. uncinata bicuspidata</i> (Ehrenberg, 1832)	+
Conochilus Ehrenberg, 1834	<i>C. (Conochiloides) coenobasis</i> (Skorikov, 1914)*	+
	<i>C. (Conochiloides) dossuarius</i> Hudson, 1885	+++
	<i>C. (Conochiloides) natans</i> (Seligo, 1900)	++
	<i>C. (Conochilus) hippocrepis</i> (Schrank, 1803)	+
	<i>C. (Conochilus) unicornis</i> Rousselet, 1892	+++
Dicranophoroides De Smet, 1997	<i>D. caudatus</i> (Ehrenberg, 1834)	++
Dicranophorus Nitsch, 1827	<i>D. epicharis</i> Harring & Myers, 1928*	++
	<i>D. forcipatus</i> (Müller, 1786)	+
	<i>D. grandis</i> (Ehrenberg, 1832)	++
	<i>D. hauerianus</i> Wiszniewski, 1939	+
	<i>D. luetkeni</i> (Bergendal, 1892)	+

Table. Continued

	<i>D. robustus</i> Harring & Myers, 1928*	+
	<i>D. secretus</i> Donner, 1951	+
<i>Didymodactylus</i> Milne, 1916	<i>D. carnosus</i> Milne, 1916*	+
<i>Dipleuchlanis</i> de Beauchamp, 1910	<i>D. propatula</i> (Gosse, 1886)*	+
<i>Dissotrocha</i> Bryce, 1910	<i>D. aculeata</i> (Ehrenberg, 1832)*	+
	<i>D. aculeata medio-aculeata</i> (Ehrenberg, 1832)*	+
	<i>D. hertzegi</i> Hauer, 1939	+
<i>Elosa</i> Lord, 1891	<i>E. worallii</i> Lord, 1891	+
<i>Embata</i> Bryce, 1910	<i>E. laticeps</i> (Murray, 1905)*	+
<i>Encentrum</i> Ehrenberg, 1838	<i>E. felis</i> (Müller, 1773)*	+
	<i>E. limicola</i> Otto, 1936*	+
	<i>E. mustela</i> (Milne, 1885)*	+
	<i>E. putorius</i> Wulfert, 1936*	+
	<i>E. saundersiae</i> (Hudson, 1885)	++
	<i>E. uncinatum</i> (Milne, 1886)*	+
	<i>E. wiszniewskii</i> Wulfert, 1939*	+
<i>Eosphora</i> Ehrenberg, 1830	<i>E. anthadis</i> Harring & Myers, 1922	+
	<i>E. ehrenbergi</i> Weber & Montet, 1918	+
	<i>E. najas</i> Ehrenberg, 1830	+
	<i>E. thoides</i> Wulfert, 1935	+
<i>Eothinia</i> Harring & Myers, 1922	<i>E. elongata</i> (Ehrenberg, 1832)*	+
<i>Epiphanes</i> Ehrenberg, 1832	<i>E. brachionus spinosa</i> (Rousselet, 1901)	+
	<i>E. macroura</i> (Barrois & Daday, 1894)	++
	<i>E. senta</i> (Müller, 1773)	++
<i>Erignatha</i> Harring & Myers, 1922	<i>E. sagittoides</i> Wiszniewski, 1935	+
<i>Euchlanis</i> Ehrenberg, 1832	<i>E. contorta</i> (Wulfert, 1939)	+
	<i>E. deflexa</i> (Gosse, 1851)*	+
	<i>E. dilatata</i> Ehrenberg, 1832	+++
	<i>E. dilatata lucksiana</i> Hauer, 1930	+
	<i>E. incisa</i> Carlin, 1939	+++
	<i>E. lyra</i> Hudson, 1886	+
	<i>E. meneta</i> Myers, 1930	++
	<i>E. oropha</i> Gosse, 1887	+
<i>Filinia</i> Bory de St. Vincent, 1824	<i>F. branchiata</i> (Rousselet, 1901)	+
	<i>F. cornuta</i> (Weisse, 1847)	++
	<i>F. limnetica</i> (Zacharias, 1893)	+++
	<i>F. longiseta</i> (Ehrenberg, 1834)	+++
	<i>F. opoliensis</i> (Zacharias, 1898)	+++
	<i>F. passa</i> (O.F.Müller, 1786)	+
	<i>F. pejleri</i> Hutchinson, 1964	++

Table. Continued

	<i>F. saltator</i> (Gosse, 1886)	+
	<i>F. terminalis</i> (Plate, 1886)	+++
<i>Floscularia</i> Cuvier, 1798	<i>F. ringens</i> (Linnaeus, 1758)	++
<i>Gastropus</i> Imhof, 1898	<i>G. hyptopus</i> (Ehrenberg, 1838)	+
	<i>G. stylifer</i> (Imhof, 1891)	+++
<i>Habrotrocha</i> Bryce, 1910	<i>H. bidens</i> (Gosse, 1851)*	+
	<i>H. flava</i> Bryce, 1915*	+
	<i>H. solitaria</i> Donner, 1949*	+
	<i>H. tripus</i> (Murray, 1907)*	+
<i>Hexarthra</i> Schmarda, 1854	<i>H. fennica</i> (Levander, 1892)	+++
	<i>H. intermedia</i> (Wiszniewski, 1929)	+++
	<i>H. mira</i> (Hudson, 1871)	+++
	<i>H. oxyuris</i> (Sernov, 1903)	+++
	<i>H. polyodonta</i> (Hauer, 1957)	+
<i>Itura</i> Harring & Myers, 1928	<i>I. aurita</i> (Ehrenberg, 1830)*	++
	<i>I. myersi</i> Wulfert, 1935*	+
<i>Kellicottia</i> Ahlstrom, 1938	<i>K. longispina</i> (Kellicott, 1879)	+++
<i>Keratella</i> Bory de St. Vincent, 1822	<i>K. cochlearis</i> (Gosse, 1851)	+++
	<i>K. tecta</i> (Gosse, 1851)	+++
	<i>K. quadrata</i> (Müller, 1786)	+++
	<i>K. testudo</i> (Ehrenberg, 1832)	+
	<i>K. tropica</i> (Apstein, 1907)	+++
	<i>K. valga</i> (Ehrenberg, 1834)	+++
<i>Lecane</i> Nitzsch, 1827	<i>L. aculeata</i> (Jabuski, 1912)*	+
	<i>L. arcuata</i> (Bryce, 1891)*	+
	<i>L. arcula</i> Harring, 1914*	+
	<i>L. bifastigata</i> Hauer, 1938	+
	<i>L. bulla</i> (Gosse, 1886)	+++
	<i>L. closterocerca</i> (Schmarda, 1859)	+++
	<i>L. cornuta</i> (Müller, 1786)	+
	<i>L. curvicornis</i> (Murray, 1913)*	+
	<i>L. donneri</i> Chengalath & Mulamoottil, 1974*	+
	<i>L. elegans</i> Harring, 1914*	+
	<i>L. elsa</i> Hauer, 1931	+
	<i>L. flexilis</i> (Gosse, 1886)	+++
	<i>L. furcata</i> (Murray, 1913)	+++
	<i>L. grandis</i> (Murray, 1913)	++
	<i>L. gwileti</i> (Tarnogradski, 1930)*	+

Table. Continued

	<i>L. haliclysta</i> Harring & Myers, 1926*	+
	<i>L. hamata</i> (Stokes, 1896)	+++
	<i>L. hastata</i> (Murray, 1913)	+
	<i>L. hornemanni</i> (Ehrenberg, 1834)*	+
	<i>L. imbricata</i> Carlin, 1939	+
	<i>L. inermis</i> (Bryce, 1892)	++
	<i>L. inopinata</i> Harring & Myers, 1926*	+
	<i>L. lamellata</i> (Daday, 1893)	+++
	<i>L. leontina</i> (Turner, 1892)*	+
	<i>L. ludwigi</i> (Eckstein, 1893)	++
	<i>L. luna</i> (Müller, 1776)	+++
	<i>L. lunaris</i> (Ehrenberg, 1832)	+++
	<i>L. perplexa</i> (Ahlstrom, 1938)	+
	<i>L. nana</i> (Murray, 1913)	+++
	<i>L. obtusa</i> (Murray, 1913)*	+
	<i>L. ohioensis</i> (Herrick, 1885)	+++
	<i>L. papuana</i> (Murray, 1913)	++
	<i>L. paradoxa</i> (Steinecke, 1916)*	+
	<i>L. punctata</i> (Murray, 1913)	+
	<i>L. pyriformis</i> (Daday, 1905)	++
	<i>L. quadridentata</i> (Ehrenberg, 1830)	+++
	<i>L. rhenana</i> Hauer, 1929	+
	<i>L. rhytida</i> Harring & Myers, 1926*	+
	<i>L. rugosa</i> (Harring, 1914)	++
	<i>L. scutata</i> (Harring & Myers, 1926)	++
	<i>L. shieli</i> Segers & Sanoamuang, 1994*	+
	<i>L. stenroosi</i> (Meissner, 1908)	+++
	<i>L. stichaea</i> Harring, 1913	++
	<i>L. tenuiseta</i> Harring, 1914*	+
	<i>L. thienemanni</i> (Hauer, 1938)*	+
	<i>L. ungulata</i> (Gosse, 1887)	+
<i>Lepadella</i> Bory de St. Vincent, 1826	<i>L. (Heterolepadella) ehrenbergi</i> (Petry, 1850)*	+
	<i>L. (Lepadella) acuminata</i> (Ehrenberg, 1834)	+++
	<i>L. (Lepadella) amphitropis</i> Harring, 1916	+
	<i>L. (Lepadella) biloba</i> Hauer, 1958*	+
	<i>L. (Lepadella) costata</i> Wulfert, 1940	+
	<i>L. (Lepadella) ovalis</i> (Müller, 1786)	+++
	<i>L. (Lepadella) patella</i> (Müller, 1773)	+++

Table. Continued

	<i>L. (Lepadella) patella persimilis</i> De Ridder, 1961	++
	<i>L. (Lepadella) princisi</i> Berzins, 1943	+
	<i>L. (Lepadella) quadricarinata</i> (Stenroos, 1898)	++
	<i>L. (Lepadella) quinquecostata</i> (Lucks, 1912)	+
	<i>L. (Lepadella) rhomboides</i> (Gosse, 1886)	+
	<i>L. (Lepadella) triptera</i> (Ehrenberg, 1832)	++
<i>Lindia</i> Dujardin, 1841	<i>L. (Halolindia) tecusa</i> (Harring & Myers, 1922)	+
	<i>L. (Lindia) torulosa</i> Dujardin, 1841*	+
	<i>L. (Lindia) truncata</i> (Jennings, 1894)	+
<i>Lophocharis</i> Ehrenberg, 1838	<i>L. naias</i> Wulfert, 1942	+
	<i>L. oxysternon</i> (Gosse, 1851)	+
	<i>L. rubens</i> Wulfert, 1939	+
	<i>L. salpina</i> (Ehrenberg, 1834)	+++
<i>Macrochaetus</i> Petry, 1850	<i>M. collinsii</i> (Gosse, 1867)	+
	<i>M. subquadratus</i> (Petry, 1850)*	+
<i>Macrotrachela</i> Milne, 1886	<i>M. aculeata</i> Milne, 1886*	+
	<i>M. concinna</i> (Bryce, 1912)	+
	<i>M. ehrenbergii</i> (Janson, 1893)*	+
	<i>M. habita</i> (Bryce, 1894)*	+
	<i>M. latior</i> Donner, 1951*	+
	<i>M. multispinosa</i> Thompson, 1892*	+
	<i>M. cf. musculosa</i> (Milne, 1886)*	+
	<i>M. nana</i> (Bryce, 1912)*	+
	<i>M. cf. papillosa</i> Thompson, 1892*	+
	<i>M. plicata</i> (Bryce, 1892)*	+
	<i>M. quadricornifera</i> Milne, 1886*	+
<i>Mikrocodides</i> Bergendal, 1892	<i>M. herthra</i> Wulfert, 1961	+
<i>Mniobia</i> Bryce, 1910	<i>M. bredensis</i> De Koning, 1947*	+
	<i>M. manga</i> (Plate, 1889)*	+
	<i>M. obtusicornis</i> Murray, 1911*	+
	<i>M. russeola</i> (Zelinka, 1891)*	+
	<i>M. scarlatina</i> (Ehrenberg, 1853)*	+
<i>Monommata</i> Bartsch, 1870	<i>M. actices</i> Myers, 1930	+
	<i>M. caudata</i> Myers, 1930	+
	<i>M. dentata</i> Wulfert, 1940*	+
	<i>M. longiseta</i> (Müller, 1786)	+
<i>Mytilina</i> Bory de St. Vincent, 1826	<i>M. bisulcata</i> (Lucks, 1912)*	+
	<i>M. mucronata</i> (Müller, 1773)	+++

Table. Continued

	<i>M. mucronata spinigera</i> (Ehrenberg, 1830)*	+
	<i>M. trigona</i> (Gosse, 1851)*	+
	<i>M. unguipes</i> (Lucks, 1912)*	+
	<i>M. ventralis</i> (Ehrenberg, 1830)	+++
	<i>M. ventralis brevispina</i> (Ehrenberg, 1830)	+
Notholca Gosse, 1886	<i>N. acuminata</i> (Ehrenberg, 1832)	+++
	<i>N. caudata</i> Carlin, 1943*	+
	<i>N. labis</i> Gosse, 1887*	+
	<i>N. salina</i> Focke, 1961*	+
	<i>N. squamula</i> (Müller, 1786)	+++
	<i>N. striata</i> (Müller, 1786)*	+
Notommata Ehrenberg, 1830	<i>N. copeus</i> Ehrenberg, 1834	+
	<i>N. cyrtopus</i> Gosse, 1886	++
	<i>N. glyphura</i> Wulfert, 1935*	+
	<i>N. tripus</i> Ehrenberg, 1838*	+
Otostephanos Milne, 1916	<i>O. donneri</i> Bartos, 1959*	+
Paradicranophorus Wiszniewski, 1929	<i>P. hudsoni</i> (Glascott, 1893)*	+
	<i>P. sordidus</i> Donner, 1968*	+
Philodina Ehrenberg, 1830	<i>P. acuticornis</i> Murray, 1902*	+
	<i>P. citrina</i> Ehrenberg, 1832*	+
	<i>P. duplicalcar</i> (De Koning, 1947)*	+
	<i>P. megalotrocha</i> Ehrenberg, 1832	+++
	<i>P. parvicalcar</i> De Koning, 1947*	+
	<i>P. plena</i> (Bryce, 1894)*	+
	<i>P. proterva</i> Milne, 1916*	+
	<i>P. roseola</i> Ehrenberg, 1832	++
	<i>P. vorax</i> (Janson, 1893)*	+
Plationus Segers, Murugan & Dumont, 1993	<i>P. patulus</i> (Müller, 1786)	+
	<i>P. polyacanthus</i> (Ehrenberg, 1834)*	+
Platyias Haring, 1913	<i>P. quadricornis</i> (Ehrenberg, 1832)	+++
Pleuretra Bryce, 1910	<i>P. cf. brycei</i> (Weber, 1898)*	+
	<i>P. lineata</i> Donner, 1962*	+
	<i>P. proxima</i> Bartos, 1963*	+
Pleurotrocha Ehrenberg, 1830	<i>P. petromyzon</i> (Ehrenberg, 1830)	++
Ploesoma Herrick, 1885	<i>P. hudsoni</i> (Imhof, 1891)*	+
Polyarthra Ehrenberg, 1834	<i>P. dolichoptera</i> Idelson, 1925	+++
	<i>P. euryptera</i> Wierzejski, 1891	+
	<i>P. major</i> Buckhardt, 1900	+

Table. Continued

	<i>P. remata</i> Skorikov, 1896	+++
	<i>P. vulgaris</i> Carlin, 1943	+++
<i>Pompholyx</i> Gosse, 1851	<i>P. complanata</i> Gosse, 1851	++
	<i>P. sulcata</i> Hudson, 1885	+++
	<i>P. triloba</i> Pejler, 1957	+
<i>Proales</i> Gosse, 1886	<i>P. decipiens</i> (Ehrenberg, 1832)	+
	<i>P. fallaciosa</i> Wulfert, 1937*	+
	<i>P. similis</i> de Beauchamp, 1907*	+
	<i>P. theodora</i> (Gosse, 1887)*	+
<i>Proalides</i> de Beauchamp, 1907	<i>P. tentaculatus</i> de Beauchamp, 1907*	+
	<i>P. subtilis</i> Rodewald, 1940	++
<i>Ptygura</i> Ehrenberg, 1832	<i>P. beauchampi</i> Edmondson, 1940	+
	<i>P. furcillata</i> (Kellicott, 1889)	+
<i>Resticula</i> Harring & Myers, 1924	<i>R. gelida</i> (Harring & Myers, 1922)	+
	<i>R. nyssa</i> Harring & Myers, 1924	+
<i>Rhinoglena</i> Ehrenberg, 1853	<i>R. frontalis</i> Ehrenberg, 1853	+
<i>Rotaria</i> Scopoli, 1777	<i>R. citrina</i> (Ehrenberg, 1838)	+
	<i>R. neptunia</i> (Ehrenberg, 1830)	+++
	<i>R. rotatoria</i> (Pallas, 1766)	+++
	<i>R. socialis</i> (Kellicott, 1888)	+
	<i>R. sordida</i> (Western, 1893)*	+
	<i>R. tardigrada</i> (Ehrenberg, 1830)*	+
<i>Scaridium</i> Ehrenberg, 1830	<i>S. longicaudum</i> (Müller, 1786)	+++
<i>Scepanatrocha</i> Bryce, 1910	<i>S. semitecta</i> Donner, 1951*	+
<i>Sinantherina</i> Bory de St. Vincent, 1826	<i>S. semibullata</i> (Thorpe, 1893)*	+
<i>Squatinnella</i> Bory de St. Vincent, 1826	<i>S. lamellaris</i> (Müller, 1786)	+
	<i>S. rostrum</i> (Schmarda, 1846)	++
<i>Synchaeta</i> Ehrenberg, 1832	<i>S. elsteri</i> Hauer, 1963*	+
	<i>S. grandis</i> Zacharias, 1893*	+
	<i>S. lakowitziana</i> Lucks, 1930	+
	<i>S. littoralis</i> Rousselet, 1902	+++
	<i>S. longipes</i> Gosse, 1887*	+
	<i>S. oblonga</i> Ehrenberg, 1832	+++
	<i>S. pectinata</i> Ehrenberg, 1832	+++
	<i>S. stylata</i> Wierzejski, 1893	+++
	<i>S. verrucosa</i> (Nipkow, 1961)	+
<i>Taphrocampa</i> Gosse, 1851	<i>T. selenura</i> Gosse, 1887	+
<i>Testudinella</i> Bory de St. Vincent, 1826	<i>T. elliptica</i> (Ehrenberg, 1834)	+

Table. Continued

	<i>T. emarginula</i> (Stenroos, 1898)	+
	<i>T. incisa</i> (Ternetz, 1892)	+
	<i>T. mucronata</i> (Gosse, 1886)	++
	<i>T. parva</i> (Ternetz, 1892)*	+
	<i>T. patina</i> (Hermann, 1783)	+++
	<i>T. reflexa</i> (Gosse, 1887)	+
	<i>T. truncata</i> (Gosse, 1886)	+
<i>Trichocerca</i> Lamarck, 1801	<i>T. bidens</i> (Lucks, 1912)	++
	<i>T. capucina</i> (Wierzejski & Zacharias, 1893)	++
	<i>T. cavia</i> (Gosse, 1886)	+
	<i>T. collaris</i> (Rousselet, 1896)	+
	<i>T. cylindrica</i> (Imhof, 1891)	+++
	<i>T. elongata</i> (Gosse, 1886)	+++
	<i>T. iernis</i> (Gosse, 1887)	+
	<i>T. insignis</i> (Herrick, 1885)	+
	<i>T. longiseta</i> (Schrank, 1802)	+++
	<i>T. lophoessa</i> (Gosse, 1886)	+
	<i>T. obtusidens</i> (Olofsson, 1918)	++
	<i>T. porcellus</i> (Gosse, 1851)	++
	<i>T. pusilla</i> (Jennings, 1903)	+++
	<i>T. rattus</i> (Müller, 1776)	+++
	<i>T. similis</i> (Wierzeski, 1893)	+++
	<i>T. stylata</i> (Gosse, 1851)	+++
	<i>T. taurocephala</i> (Hauer, 1931)	+
	<i>T. tenuior</i> (Gosse, 1886)	+++
	<i>T. tigris</i> (Müller, 1786)	++
	<i>T. vernalis</i> (Hauer, 1936)	+
	<i>T. weberi</i> (Jennings, 1903)	+++
<i>Trichotria</i> Bory de St. Vincent, 1827	<i>T. curta</i> (Skorikov, 1914)	+
	<i>T. pocillum</i> (Müller, 1776)	+++
	<i>T. tetractis</i> (Ehrenberg, 1830)	+++
<i>Tripleuchlanis</i> Myers, 1930	<i>T. plicata</i> (Levander, 1894)	+
<i>Wolga</i> Skorikov, 1903	<i>W. spinifera</i> (Western, 1894)	++
<i>Wulfertia</i> Donner, 1943	<i>W. kivuensis</i> De Smet, 1992*	+

+ Recorded from only 1-5 localities
 ++ Recorded from 6-10 localities
 +++ Recorded from more than 10 localities

Appendix. Synonyms in rotifers (valid species printed in bold).

- Brachionus calyciflorus** Pallas, 1766
Brachionus pala Ehrenberg, 1838
Brachionus calyciflorus anureiformes Brehm, 1909
- Brachionus leydigii** Cohn, 1862
Brachionus quadratus tridentatus Zernov, 1901
Brachionus leydigi tridentatus (Zernov, 1901)
- Brachionus quadridentatus** Hermann, 1783
Brachionus bakeri brevispinus (Ehrenberg, 1832)
Brachionus quadridentatus brevispinus (Ehrenberg, 1832)
Brachionus quadridentatus cluniorbicularis (Skorikov, 1894)
Brachionus quadridentatus ancylognathus (Schmarda, 1859)
- Brachionus rubens** Ehrenberg, 1838
Brachionus urceolaris rubens (Ehrenberg, 1838)
- Brachionus sessilis** Varga, 1951
Brachionus urceolaris sessilis (Varga, 1951)
- Eothinia elongata** (Ehrenberg, 1832)
Eothinia lamellate Berzins, 1949
- Epiphanes macroura** (Barrois & Daday, 1894)
Notops macrurus Barrois & Daday, 1894
Epiphanes macrourus Barrois & Daday, 1894
- Filinia branchiata** (Rousselet, 1901)
Filinia cornuta branchiata (Rousselet, 1901)
- Filinia longiseta** (Ehrenberg, 1834)
Triarthra longiseta Ehrenberg, 1834
- Filinia passa** (O.F.Müller, 1786)
Triarthra mystacina Ehrenberg, 1832
- Filinia saltator** (Gosse, 1886)
Filinia longiseta saltator (Gosse, 1886)
- Filinia terminalis** (Plate, 1886)
Filinia maior (Colditz, 1924)
- Hexarthra fennica** (Levander, 1892)
Pedalion fennicum Levander, 1892
- Hexarthra mira** (Hudson, 1871)
Pedalion mirum Hudson, 1871
- Hexarthra polyodonta** (Hauer, 1957)
Hexarthra fennica polyodonta Hauer, 1957
- Itura aurita** (Ehrenberg, 1830)
Itura intermedia Wulfert, 1935
- Keratella cochlearis** (Gosse, 1851)
Keratella cochlearis typical (Gosse, 1851)
- Keratella tecta** (Gosse, 1851)
Keratella cochlearis tecta (Gosse, 1851)
- Keratella quadrata** (Müller, 1786)
Anuraea aculeata Ehrenberg, 1832
- Keratella valga** (Ehrenberg, 1834)
Anuraea valga Ehrenberg, 1834
- Lecane furcata** (Murray, 1913)
Monostyla elachis Haring & Myers, 1926
Lecane furcata elachis (Murray, 1913)
- Lecane luna** (Müller, 1776)
Cathypua luna (Gosse, 1886)
Lecane submagna De Ridder, 1960
- Lecane lunaris** (Ehrenberg, 1832)
Monostyla lunaris Ehrenberg, 1832
- Lecane perplexa** (Ahlstrom, 1938)
Monostyla perplaxa Ahlstrom, 1938
- Lecane ohioensis** (Herrick, 1885)
Distyla ichthyoura Herrick, 1885
Lecane ohioensis ichthyoura (Anderson & Shephard, 1892)
- Lecane quadridentata** (Ehrenberg, 1830)
Monostyla quadridentata Ehrenberg, 1830
- Lepadella (Lepadella) patella persimilis** De Ridder, 1961
Lepadella persimilis De Ridder, 1961
Lepadella patella similes (Lucks, 1912)
- Lophocharis oxysternon** (Gosse, 1851)
Metopidia oxysterna Gosse, 1851
- Monommata actices** Myers, 1930
Monommata arndti Remane, 1933
- Mytilina ventralis ventralis** (Ehrenberg, 1830)
Mytilina ventralis macracantha (Gosse, 1886)
- Platinius patulus** (Müller, 1786)
Brachionus patulus Müller, 1786
- Platinius polyacanthus** (Ehrenberg, 1834)
Brachionus polyacanthus Ehrenberg, 1834
- Polyarthra dolichoptera** Idelson, 1925
Polyarthra platyptera Ehrenberg, 1838
- Polyarthra vulgaris** Carlin, 1943
Polyarthra proloba Wulfert, 1941
- Proalides subtilis** Rodewald, 1940
Liliferotrocha subtilis (Rodewald, 1940)
Proalides verrucosa Barrois & Daday, 1894
- Squatinella lamellaris** (Müller, 1786)
Squatinella muticus (Ehrenberg, 1832)
- Testudinella elliptica** (Ehrenberg, 1834)
Pterodina elliptica Ehrenberg, 1834
- Testudinella emarginula** (Stenroos, 1898)
Testudinella incisa emarginula Stenroos, 1898
- Testudinella patina** (Hermann, 1783)
Pterodina patina Hermann, 1783
- Trichocerca obtusidens** (Olofsson, 1918)
Trichocerca relictus Donner, 1950
- Trichocerca rattus** (Müller, 1776)
Trichocerca rattus carinata Ehrenberg, 1830
Trichocerca rattus minor Fadeew, 1925
- Trichocerca similis similis** (Wierzejki, 1893)
Trichocerca birostris (Minkiewisz, 1900)

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