

REVISION OF PARASITIC HELMINTHS REPORTED IN FRESHWATER FISH FROM TURKEY WITH NEW RECORDS

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ABSTRACT

This new checklist is an update of helminths of freshwater fish from Turkey. The last publication of a checklist of helminth parasites of freshwater fish in Turkey was over 11 years ago (Öktener, 2003), and there have been a number of new records. This update includes additional records and allows for the correction of errors and omissions that were present in the preceding version. The revision literature indicated the occurrence of 123 parasite species which included 60 monogeneans, 20 digeneans, 20 cestodes, 11 nematodes, seven acanthocephalans, five annelids from 71 different wild fish (64 native, four transitional, three introduced fish) species from freshwater in Turkey. Parasites not identified to species level are listed separately, and not included in the resulting comments, because of reporting different host species. Cyprinidae, with 50 species, is the dominant family among the examined fish with regard to species diversity.

RESUMEN: Revisión de parásitos helmintos reportados en peces de agua dulce en Turquía, con nuevos registros.

Se realizó una actualización del elenco de especies de helmintos parásitos de peces de agua dulce de Turquía. Desde la publicación del último listado de parásitos helmintos de peces dulceacuícolas, hace 11 años (Öktener, 2003), han habido cantidad de nuevos registros. Esta actualización incluye a dichos registros, lo cual permitió la corrección de aquellos errores y omisiones que se cometieron en la versión anterior del listado. La literatura revisada indica la ocurrencia de 123 especies parásitas que incluyen 60 monogéneos, 20 digéneos, 20 céstodos, 11 nemátodos, siete acantocéfalos y cinco anélidos colectados en 71 especies de peces de agua dulce en Turquía (64 especies nativas, cuatro transicionales y tres introducidas). Los parásitos no identificados a nivel especie se enlistan separadamente y no se comentan en los resultados, debido a que son reportados en distintas especies de hospederos. Los ciprínidos, con 50 especies, es la familia dominante entre los peces examinados en cuanto a diversidad específica.

REZUMAT: Revizuire a viermilor paraziți raportați la specii de pești de apă dulce din Turcia, cu noi înregistrări.

Această listă nouă de specii este rezultatul revizuirii parazitării helmintice la speciile de pești de apă dulce din Turcia. De la publicarea primei versiuni în urmă cu peste 11 ani (Öktener, 2003), au mai fost semnalate și alte specii. Prezenta versiune include și semnalările ulterioare și permite corectarea erorilor și omisiunilor din prima versiune. Literatura utilizată a indicat prezența a 123 de specii parazite care au inclus 60 specii monogenee, 20 specii de digenee, 20 de cestode, 11 nematode, șapte acanthocephali, cinci annelide, iar speciile gazdă sunt în număr de 71 (specii sălbatice dulcicole) din care 64 sunt pești autohtoni, patru de tranzit și trei specii introduse. Paraziții care nu au fost identificați la nivel de specie sunt indicați într-o listă separată fără a include comentarii, deoarece se raportează la specii gazdă diferite. Din punct de vedere al diversității speciilor studiate, familia de pești dominantă este cea a Cyprinidaelor cu 50 de specii investigate parazitologic.

INTRODUCTION

The fish-parasite checklist studies are important taxonomic documents in order to obtain the fish-parasite relationships, host selectivity and geographic distribution of fish parasites. They may contribute as a baseline of data in the disciplines of parasitology, zoology, medicine, environmental science in terms of determining biological diversity, treatment and control of parasites, identification of parasite, determining host selectivity and geographic distribution of fish zoonoses, compare of fish parasite fauna of local, regional and worldwide. Research about the helminth parasites of freshwater fish in the world has increased in recent years (Holland and Kennedy, 1997; Arthur and Lumanlan-Mayo, 1997; Palm et al., 1999; Arthur and Ahmet, 2002; Kohn et al., 2006; Salgado-Maldonado, 2006; Luque and Tavares, 2007; Violante-González et al., 2007; Pazooki and Masoumian, 2012).

Turkey is geographically divided into seven regions: the Marmara Region, the Mediterranean Region, the Black Sea Region, the Aegean Region, the Central Anatolia Region, the Eastern Anatolian Region, and the South-Eastern Anatolian Region. These regions have 200 lakes, 206 dam lakes, 953 pond lakes and 33 rivers (Kiliç, 1999). The examination of literature on Turkish freshwater has revealed the report of 248 species (plus 13 introduced) valid freshwater fish species (Frick et al., 2007).

The parasites of Turkey's freshwater fish were poorly known until Paperna (1964) reported the cestode *Caryophyllaeus brachycollis* Janiszewska, in 1951 *Cyprinus carpio*. Articles in different journals, MSc and PhD thesis, symposium, conference proceedings and other reports have been published mentioning parasites of wild, farmed and imported fish by Turkish researchers between 1964 and 2014.

All information about parasites of freshwater fish-parasite have been compiled by Öktenler (2003), based on a parasite-host list and host-parasite list, respectively. The author compiled a critical checklist of the metazoan parasites (99 helminths, 12 parasitic crustaceans, one mollusca larvae) of freshwater fish from Turkey. After this checklist, several studies and theses were published by Turkish and foreign scientists. These studies yielded some new distributional records and added new species.

This new checklist was done to update the helminths of freshwater fishes from Turkey. Finally, it was also planned to show and update the parasite richness of fishes of Turkey. It was felt that a critical summary of the freshwater fish parasites known from Turkey to date would help to solve contradictions among researchers, and benefit veterinarians, parasitologists, etc.

MATERIALS AND METHODS

Information from all available references on helminths of freshwater fishes in Turkey (journal publications, reports of research projects, thesis, proceedings of congress, symposium proceedings) from 1964 to 2014 were gathered to provide host-parasite and parasite-host lists.

In the literature dealing with the parasites of freshwater fishes in Turkey, appear many incorrect spellings of parasite names, host names and species author's names, and incorrect attributions of dates of species authorship. The scientific names of all parasites and their synonyms were checked with main electronic sites concerning with the classification (ITIS, 2013; WoRMS Editorial Board, 2014; Gibson et al., 2005). Erroneous spellings of parasite names have been consistently applied, these were noted (Tab. 1).

The scientific names of fishes were checked according to Frick et al. (2007) and the electronic sites Froese and Pauly (2013); WoRMS Editorial Board (2014); Eschmeyer (2014). Similarly, misspellings of host species names, with few exceptions where these have been widely applied, have been corrected without comment using information obtained from Froese and Pauly (2013) (Tab. 2).

Table 1: Change of current valid names and synonymies of helminth species.

Synonyms and incorrect spellings	Valid Name
<i>Diplozoon megan</i> (Nordmann, 1832)	<i>Paradiplozoon megan</i> Bykhovskii and Nagibi, 1959
<i>Silurodiscoides vistulensis</i> Gussev, 1985	<i>Ancylo-discoides vistulensis</i> Sivak, 1932
<i>Silurodiscoides siluri</i> Gussev, 1976	<i>Ancylo-discoides siluri</i> Zandt, 1924
<i>Philometra abdominalis</i> Nybelin, 1928	<i>Philometra ovate</i> (Zeder, 1803)
<i>Bothriocephalus gowkonensis</i> (Korting, 1976)	<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus mutabilis</i> Rudolphi, 1802	<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Helobdella stagnates</i> Linnaeus, 1758	<i>Helobdella stagnalis</i> (Linnaeus, 1758)

Table 2: Change of current valid names and synonymies of fish species.

Synonyms and incorrect spellings	Valid Names
<i>Carassius auratus auratus</i>	<i>Carassius auratus</i>
<i>Gobius fluviatilis</i>	<i>Neogobius fluviatilis</i>
<i>Cobitis simplicispinna</i>	<i>Cobitis simplicispina</i>
<i>Chondostroma regium</i>	<i>Chondrostoma regium</i>
<i>Leuciscus cephalus</i>	<i>Squalius cephalus</i>
<i>Leuciscus cephalus orientalis</i>	<i>Squalius cephalus</i>
<i>Vimba vimba tenella</i>	<i>Vimba vimba</i>
<i>Chalcalburnus chalcoides</i>	<i>Alburnus chalcoides</i>
<i>Rhodeus sericeus amarus</i>	<i>Rhodeus amarus</i>
<i>Rhodeus sericeus</i>	<i>Rhodeus amarus</i>
<i>Clarias lazera</i>	<i>Clarias gariepinus</i>
<i>Stizostedion lucioperca</i>	<i>Sander lucioperca</i>
<i>Nemachilus sp.</i>	<i>Nemacheilus sp.</i>
<i>Cyprinion macrostomus</i>	<i>Cyprinion macrostomum</i>
<i>Leuciscus lepidus</i>	<i>Squalius lepidus</i>
<i>Garra rufa obtusa</i>	<i>Garra rufa</i>
<i>Capoeta capoeta bergamae</i>	<i>Capoeta bergamae</i>
<i>Barbus plebejus escherichii</i>	<i>Luciobarbus escherichii</i>
<i>Barbus rajanorum mystaceus</i>	<i>Luciobarbus mystaceus</i>
<i>Barbus rajanorum</i>	<i>Luciobarbus pectoralis</i>
<i>Capoeta capoeta umbla</i>	<i>Capoeta umbla</i>
<i>Barbus capito pectoralis</i>	<i>Luciobarbus pectoralis</i>
<i>Barbus esocinus</i>	<i>Luciobarbus esocinus</i>
<i>Pseudophoxinus battalgil</i>	<i>Pseudophoxinus battalgilae</i>

RESULTS AND DISCUSSION

This helminth checklist of freshwater fish from Turkey includes only Monogenea, Digenea, Cestoda, Nematoda, Acanthocephala, Annelida and it was compiled with the parasite species arranged by phylum, class and alphabetical, as appropriate. The host-parasite list/parasite-host list are arranged: (1) a list of collected parasite groups and their parasitized fish, the collection site, and author (Tab. 3); (2) a list of parasitized fish with the corresponding species of parasites (Tab. 4).

Table 3: Helminth - Host List.

Phylum Platyhelminthes		
Class Monogenea		
<i>Ancylo-discoides siluri</i> Zandt, 1924		
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)
<i>Silurus glanis</i>	İznik Lake	Aydoğdu et al. (1996b)
<i>Silurus glanis</i>	Terkos Lake	Soylu (2005)
<i>Silurus glanis</i>	Almus Dam Lake	Turgut (2005)
<i>Silurus glanis</i>	Siğirci Lake	Çolak (2013)
<i>Ancylo-discoides vistulensis</i> Sivak, 1932		
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)
<i>Silurus glanis</i>	Terkos Lake	Soylu (2005)
<i>Silurus glanis</i>	Almus Dam Lake	Turgut (2005)
<i>Silurus glanis</i>	Siğirci Lake	Çolak (2013)
<i>Ancyrocephalus paradoxus</i> Creplin, 1839		
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus affinis</i> Bychowsky, 1933		
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)
<i>Dactylogyrus alatus</i> Linstow, 1878		
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Chondrostoma regium</i>	Almus Dam Lake	Turgut (2005)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Chondrostoma regium</i>	Almus Dam Lake	Özgül (2008)
<i>Alburnus heckeli</i>	Murat River	Koyun (2011)

Table 3 (continuing): Helminth - Host List.

<i>Dactylogyrus anchoratus</i> (Dujardin, 1845)		
<i>Cyprinus carpio</i>	Bekteşaga Pond	Özer (1995)
<i>Carassius carassius</i>	Enne Dam Lake	Koyun (2001)
<i>Carassius auratus</i>	Enne Dam Lake	Koyun (2001)
<i>Carassius carassius</i>	Kovada Lake	Özan and Kir (2005)
<i>Carassius gibelio</i>	Seyitler Dam Lake	Öztürk (2010)
<i>Cyprinus carpio</i>	Karacaören II Dam Lake	Samanci (2011)
<i>Carassius carassius</i>	Karacaören II Dam Lake	Samanci (2011)
<i>Carassius auratus</i>	Emre Dam Lake	Öztürk (2011)
<i>Carassius gibelio</i>	Emre Dam Lake	Öztürk (2011)
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus ancylostylus</i> Linstow, 1878		
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Sağlam (1992)
<i>Luciobarbus esocinus</i>	Keban Dam Lake	Sağlam (1992)
<i>Cyprinus carpio</i>	Keban Dam Lake	Sağlam (1992)
<i>Dactylogyrus asper</i> Linstow, 1878		
<i>Luciobarbus esocinus</i>	Keban Dam Lake	Sağlam (1992)
<i>Luciobarbus mystaceus</i>	Keban Dam Lake	Sağlam (1992)
<i>Dactylogyrus auriculatus</i> (Nordmann, 1832)		
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)
<i>Dactylogyrus baueri</i> Gussev, 1955		
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus bicornis</i> Malevitskaya, 1941		
<i>Rhodeus amarus</i>	Sapanca, Terkos Lakes	Soylu (2009)
<i>Dactylogyrus carpathicus</i> Zakhvatkin, 1951		
<i>Luciobarbus escherichii</i>	Doganci Dam Lake	Aydoğdu (2001)

Table 3 (continuing): Helminth - Host List.

<i>Dactylogyrus chalcalburni</i> Dogiel et Bychow., 1833		
<i>Alburnus chalcoides</i>	Manyas Lake	Öztürk (2000)
<i>Alburnus chalcoides</i>	Terkos Lake	Soylu (2009)
<i>Dactylogyrus cornu</i> Linstow, 1878		
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Vimba vimba</i>	Manyas Lake	Öztürk (2000)
<i>Vimba vimba</i>	Sirakaraağaçlar Stream	Özer and Öztürk (2005)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Dactylogyrus cornoides</i> (Gläser and Gussev, 1971)		
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Dactylogyrus crucifer</i> Wagener, 1857		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Rutilus frisii</i>	İznik Lake	Aydoğdu et al. (1997b)
<i>Rutilus rutilus</i>	Manyas Lake	Öztürk (2000)
<i>Capoeta tinca</i>	Almus Dam Lake	Turgut (2005)
<i>Rutilus rutilus</i>	Kocadere Stream	Selver (2008)
<i>Capoeta tinca</i>	Almus Dam Lake	Özgül (2008)
<i>Rutilus rutilus</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus difformis</i> Wagener, 1857		
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (1990)
<i>Scardinius erythrophthalmus</i>	Manyas Lake	Öztürk (2000)
<i>Scardinius erythrophthalmus</i>	Karacabey Lagoon Lake	Öztürk et al. (2002)
<i>Scardinius erythrophthalmus</i>	Kocadere Stream	Selver (2008)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Soylu (2009)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)

Table 3 (continuing): Helminth - Host List.

<i>Dactylogyrus difformoides</i> Glaser and Gusev, 1967		
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (2009)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus distinguendus</i> (Linstow, 1878)		
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Blicca bjoerkna</i>	Kocadere Stream	Selver (2008)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Dactylogyrus elegantis</i> Gusev, 1966		
<i>Chondrostoma regium</i>	Murat River	Koyun (2011)
<i>Squalius cephalus</i>	Murat River	Koyun (2011)
<i>Dactylogyrus ergensi</i> Molnar, 1964		
<i>Pseudophoxinus antalyae</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932		
<i>Luciobarbus mystaceus</i>	Keban Dam Lake	Sağlam (1992)
<i>Chondrostoma regium</i>	Keban Dam Lake	Sağlam (1992)
<i>Cyprinus carpio</i>	Bekteşaga Pond	Özer (1995)
<i>Cyprinus carpio</i>	Uluabat Lake	Oğuz et al. (1996a)
<i>Cyprinus carpio</i>	İznic Lake	Aydoğdu (1997)
<i>Cyprinus carpio</i>	Manyas Lake	Öztürk (2000)
<i>Cyprinus carpio</i>	Doğanci Dam Lake	Aydoğdu (2001)
<i>Cyprinus carpio</i>	Karacabey Lagoon Lake	Aydoğdu et al. (2001a)
<i>Cyprinus carpio</i>	Karamik Lake	Kutlu (2005)
<i>Cyprinus carpio</i>	Eber Lake	Öztürk (2005)
<i>Cyprinus carpio</i>	Almus Dam Lake	Turgut (2005)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)
<i>Cyprinus carpio</i>	Hazar Lake	Aksoy et al. (2006)
<i>Squalius cephalus</i>	Hazar Lake	Aksoy et al. (2006)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Barbus grypus</i>	Atatürk Dam Lake	Dal (2006)

Table 3 (continuing): Helminth - Host List.

<i>Cyprinus carpio</i>	Akşehir Lake	Kartal (2006)
<i>Cyprinus carpio</i>	Selevir Dam Lake	Öztürk and Bulut (2006)
<i>Cyprinus carpio</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Cyprinus carpio</i>	Terkos Lake	Soylu (2009)
<i>Cyprinus carpio</i>	Emre Dam Lake	Öztürk (2011)
<i>Cyprinus carpio</i>	Tahtali Dam Lake	Karakişi and Demir (2012)
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus falcatus</i> (Wedl, 1857)		
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Dactylogyrus folkmanovae</i> Ergens, 1956		
<i>Squalius cephalus</i>	Doganci Dam Lake	Aydoğdu (2001)
<i>Squalius cephalus</i>	Susurluk River	Gürkan and Özcan (2012)
<i>Dactylogyrus fraternus</i> Wagener, 1909		
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Dactylogyrus frisii</i> Bychowsky, 1933		
<i>Rutilus frisii</i>	Terkos Lake	Soylu (2009)
<i>Dactylogyrus inexpectatus</i> Izjumova, 1955		
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus izjumovae</i> Gusev, 1966		
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Dactylogyrus malleus</i> Linstow, 1877		
<i>Barbus plebejus</i>	Almus Dam Lake	Turgut (2005)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)
<i>Dactylogyrus macrocanthus</i> Wagener, 1857		
<i>Tinca tinca</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Uluabat Lake	Öztürk (2002)
<i>Tinca tinca</i>	Terkos Lake	Soylu (2003)

Table 3 (continuing): Helminth - Host List.

<i>Dactylogyrus minutus</i> Kulwiec, 1927		
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Sağlam (1992)
<i>Cyprinus carpio</i>	Keban Dam Lake	Sağlam (1992)
<i>Cyprinus carpio</i>	Karacaören I Dam Lake	Kir (1998)
<i>Cyprinus carpio</i>	Beyşehir Lake	Özan (2005)
<i>Carassius carassius</i>	Kovada Lake	Özan and Kir (2005)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)
<i>Cyprinus carpio</i>	Kovada Lake	Kir and Özan (2007)
<i>Dactylogyrus naviculoides</i> Ergens, 1960		
<i>Squalius cephalus</i>	Almus Dam Lake	Turgut (2005)
<i>Dactylogyrus nybelini</i> Markewitsch, 1933		
<i>Rutilus frisii</i>	Terkos Lake	Soylu (2009)
<i>Dactylogyrus phoxini</i> (Malevitskaya, 1949)		
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Dactylogyrus prostaе</i> Molnar, 1964		
<i>Squalius cephalus</i>	Murat River	Koyun (2011)
<i>Dactylogyrus pulcher</i> Bychowsky, 1957		
<i>Capoeta capoeta</i>	Almus Dam Lake	Turgut (2005)
<i>Dactylogyrus rectotrabus</i> Gussev, Jalal and Molnar, 1993		
<i>Garra rufa</i>	Murat River	Koyun (2011)
<i>Dactylogyrus sphyrna</i> Linstow, 1828		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Capoeta trutta</i>	Keban Dam Lake	Sağlam (1992)
<i>Chondrostoma regium</i>	Keban Dam Lake	Sağlam (1992)
<i>Blicca bjoerkna</i>	Uluabat Lake	Akinci (1999)
<i>Blicca bjoerkna</i>	Manyas Lake	Öztürk (2000)
<i>Rutilus rubilio</i>	İzник Lake	Aydoğdu et al. (2000)

Table 3 (continuing): Helminth - Host List.

<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Pseudophoxinus antalyae</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Blicca bjoerkna</i>	Kocadere Stream	Selver (2008)
<i>Vimba vimba</i>	Gölbaşı Dam Lake	Aydoğdu et al. (2008)
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (2009)
<i>Rutilus rutilus</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus vastator</i> (Nybelin, 1924)		
<i>Cyprinus carpio</i>	Bafa Lake	Geldiay and Balik (1974)
<i>Aphanius</i> sp.	Cigli Stream	Geldiay and Balik (1974)
<i>Capoeta capoeta</i>	Balikliag Stream	Cengizler and Göksu (1994)
<i>Alburnus orontis</i>	Balikliag Stream	Cengizler and Göksu (1994)
<i>Cyprinus carpio</i>	Bekteşaga Pond	Özer (1995)
<i>Cyprinus carpio</i>	Seyhan River	Cengizler et al. (2001)
<i>Carassius carassius</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2005)
<i>Silurus glanis</i>	Yamula Dam Lake	Kilinçaslan (2007)
<i>Cyprinus carpio</i>	Adana DSI	Güleç and Şahan (2010)
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Dactylogyrus vistulae</i> Prost, 1957		
<i>Squalius cephalus</i>	Doganci Dam Lake	Aydoğdu (2001)
<i>Squalius cephalus</i>	Almus Dam Lake	Turgut (2005)
<i>Chondrostoma regium</i>	Almus Dam Lake	Turgut (2005)
<i>Rutilus rutilus</i>	Sapanca Lake	Karabiber (2006)
<i>Squalius cephalus</i>	Örenler Dam Lake	Kurupinar (2009)
<i>Squalius cephalus</i>	Susurluk River	Gürkan and Özan (2012)
<i>Chondrostoma regium</i>	Murat River	Koyun (2011)
<i>Squalius cephalus</i>	Murat River	Koyun (2011)
<i>Dactylogyrus wunderi</i> Bykhovskii, 1931		
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Diplozoon homoion</i> Bykhovskii and Nagibi, 1959		
<i>Rutilus rutilus</i>	Manyas Lake	Öztürk (2000)

Table 3 (continuing): Helminth - Host List.

<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Cyprinus carpio</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Pseudophoxinus antalyae</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Diplozoon paradoxum</i> Nordman, 1832		
<i>Rhodeus amarus</i>	Simav, Nif Brooks	Geldiay and Balik (1974)
<i>Rutilus rutilus</i>	Uluabat Lake	Geldiay and Balik (1974)
<i>Acantobrama marmid</i>	Tigem Reservoirs	Zeren (2008)
<i>Alburnus chalcoides</i>	Tödürge Lake	Yildirim and Ünver (2006)
<i>Diplozoon barbi</i> Nordman, 1832		
<i>Capoeta trutta</i>	Keban Dam Lake	Sağlam (1992)
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Sağlam (1992)
<i>Dogielius forceps</i> Bychowsky, 1936		
<i>Capoeta damascina</i>	Murat River	Koyun (2011)
<i>Gyrodactylus arcuatus</i> Bychowsky, 1933		
<i>Gasterosteus aculeatus</i>	Sirakaraağaçlar Stream	Özer et al. (2004)
<i>Gyrodactylus cobitis</i> Bychowsky, 1933		
<i>Cobitis simplicispina</i>	Akşehir Lake	Kartal (2006)
<i>Gyrodactylus elegans</i> Nordmann, 1832		
<i>Cyprinus carpio</i>	Eski Gediz Stream	Geldiay and Balik (1974)
<i>Cyprinus carpio</i>	Seyhan River	Cengizler et al. (2001)
<i>Luciobarbus pectoralis</i>	Seyhan River	Şahan and Cengizler (2003)
<i>Barbus plebejus</i>	Almus Dam Lake	Turgut (2005)
<i>Chondrostoma regium</i>	Almus Dam Lake	Turgut (2005)
<i>Cyprinus carpio</i>	Karamik Lake	Kutlu (2005)
<i>Cyprinus carpio</i>	Eber Lake	Öztürk (2005)
<i>Cyprinus carpio</i>	Akşehir Lake	Kartal (2006)
<i>Cyprinus carpio</i>	Selevir Dam Lake	Öztürk and Bulut (2006)

Table 3 (continuing): Helminth - Host List.

<i>Gyrodactylus gobii</i> Shul'man, 1953		
<i>Neogobius fluviatilis</i>	Uluabat Lake	Öztürk et al. (2002)
<i>Gyrodactylus hemibarbi</i> (Ergens, 1980)		
<i>Barbus plebejus</i>	Almus Dam Lake	Turgut (2005)
<i>Gyrodactylus katharineri</i> Malmberg, 1964		
<i>Carassius carassius</i>	Enne Dam Lake	Koyun (2001)
<i>Carassius auratus</i>	Enne Dam Lake	Koyun (2001)
<i>Gyrodactylus macrocornis</i> Ergens, 1963		
<i>Chondrostoma regium</i>	Almus Dam Lake	Turgut (2005)
<i>Chondrostoma regium</i>	Almus Dam Lake	Özgül (2008)
<i>Gyrodactylus medius</i> Kathariner, 1894		
<i>Tinca tinca</i>	Kovada Lake	Kir and Özan (2005)
<i>Gyrodactylus narzikulovi</i> Ergens and Dzhililov 1979		
<i>Capoeta tinca</i>	Almus Dam Lake	Turgut (2005)
<i>Capoeta tinca</i>	Almus Dam Lake	Özgül (2008)
<i>Gyrodactylus proterorhini</i> Ergens, 1967		
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
<i>Gyrodactylus scardinii</i> Malmberg, 1956		
<i>Cyprinus carpio</i>	Manyas Lake	Öztürk (2000)
<i>Carassius gibelio</i>	Seyitler Dam Lake	Öztürk (2010)
<i>Onchocleidus similis</i> Mueller, 1936		
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)

Table 3 (continuing): Helminth - Host List.

<i>Quadriacanthus clariadis</i> (Paperna, 1961)		
<i>Clarias gariepinus</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2005)
<i>Paradiplozoon megan</i> Bykhovskii and Nagibi, 1959		
<i>Squalius cephalus</i>	Doganci Dam Lake	Aydođdu (2001)
<i>Squalius cephalus</i>	Susurluk River	Gürkan and Özan (2012)
<i>Alburnus chalcoides</i>	Tödürge Lake	Yildirim and Ünver (2006)
<i>Tetraonchus monenteron</i> Diesing, 1858		
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Esox lucius</i>	Uluabat Lake	Öztürk (1995)
<i>Esox lucius</i>	Doganci Dam Lake	Aydođdu 2001
<i>Esox lucius</i>	Gölbaşı Dam Lake	Aydođdu et al. (2008)
<i>Esox lucius</i>	Siğirci Lake	Çolak (2013)
Phylum Platyhelminthes		
Class Digenea		
<i>Allocreadium isoporum</i> Looss, 1894		
<i>Luciobarbus escherichii</i>	Doganci Dam Lake	Aydođdu (2001)
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Barbus plebejus</i>	Enne Dam Lake	Koyun (2001)
<i>Squalius cephalus</i>	Enne Dam Lake	Koyun (2001)
<i>Barbus plebejus</i>	Murat River, Aras River	Aslan (2009)
<i>Aspidogaster limacoides</i> Diesing, 1835		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Asymphylodora imitans</i> (Mühling, 1898)		
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2006)

Table 3 (continuing): Helminth - Host List.

<i>Asymphylogora markewitschi</i> Kulakovskaya, 1947		
<i>Scardinius erythrophthalmus</i>	Uluabat Lake	Oğuz and Öztürk (1993)
<i>Scardinius erythrophthalmus</i>	Kocadere Stream	Selver (2008)
<i>Asymphylogora tincae</i> (Moeder, 1790)		
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sarıyar Dam Lake, Kızılcahamam Brook	Burgu et al. (1988)
<i>Barbus</i> sp.	Çifteler-Sakaryabaşı Fish Production Station, Sarıyar Dam Lake	Burgu et al. (1988)
<i>Esox lucius</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station	Burgu et al. (1988)
<i>Tinca tinca</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Uluabat Lake	Aksakal (1992)
<i>Tinca tinca</i>	İznik Lake	Aydoğdu et al. (1996a)
<i>Tinca tinca</i>	Terkos Lake	Soylu (2003)
<i>Tinca tinca</i>	Kapulukaya Dam Lake	Yıldız (2003)
<i>Tinca tinca</i>	Beyşehir Lake	Özan (2005)
<i>Tinca tinca</i>	Kovada Lake	Kir and Özan (2005)
<i>Bucephalus polymorphus</i> Baer, 1827		
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)
<i>Sander lucioperca</i>	Eğirdir Lake	Yıldırım et al. (1996)
<i>Sander lucioperca</i>	Beyşehir Lake, Kovada Lake	Kara (1997)
<i>Knipowitschia caucasica</i>	Eğirdir Lake	Diler et al. (2001)
<i>Clinostomum complanatum</i> Rudolphi, 1819		

Table 3 (continuing): Helminth - Host List.

<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanli Dam Lake, Çankiri-Günerdiğin Pond	Burgu et al. (1988)
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook	Burgu et al. (1988)
<i>Chondrostoma</i> sp.	Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Varicorhinus</i> sp.	Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Çankiri-Günerdiğin Pond, Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Luciobarbus escherichii</i>	Kirmir Stream	Öge and Sarimehmetoğlu (1996)
<i>Capoeta tinca</i>	Kirmir Stream	Öge and Sarimehmetoğlu (1996)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)
<i>Crepidostomum farionis</i> (O. F. Muller, 1780)		
<i>Salmo trutta abanticus</i>	Abant Lake	Caira (1989)
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)

Table 3 (continuing): Helminth - Host List.

<i>Tinca tinca</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Terkos Lake	Soylu (2003)
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Esox lucius</i>	Gölbaşı Dam Lake	Aydoğdu et al. (2008)
<i>Blicca bjoerkna</i>	Kocadere Stream	Selver (2008)
<i>Rutilus rutilus</i>	Kocadere Stream	Selver (2008)
<i>Scardinius erythrophthalmus</i>	Kocadere Stream	Selver (2008)
<i>Diplodiscus subclavatus</i> Diesing, 1836		
<i>Esox lucius</i>	Uluabat Lake	Öztürk et al. (2000)
<i>Opisthorchis felinus</i> (Rivolta, 1884)		
<i>Rutilus rutilus</i>	Uluabat, Manyas Lakes	Geldiay and Balik (1974)
<i>Orientocreadium siluri</i> Bykhovski and Dubi., 1954		
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)
<i>Orientocreadium batrachoides</i> Tubangui, 1931		
<i>Clarias gariepinus</i>	Asi River	Tepe et al. (2013)
<i>Phyllodistomum elongatum</i> Nybelin, 1926		
<i>Luciobarbus pectoralis</i>	Karacaören I Dam Lake	Kir (1998)
<i>Posthodiplostomum cuticola</i> Nordmann, 1832		
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Uluabat Lake	Akinci (1999)
<i>Cyprinus carpio</i>	Eber Lake	Öztürk (2005)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Alburnus chalcoides</i>	Tödürge Lake	Yildirim and Ünver (2006)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)
<i>Posthodiplostomum minimum</i> Maccallum, 1921		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1976)

Table 3 (continuing): Helminth - Host List.

<i>Pygidiopsis genata</i> Looss, 1907		
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
<i>Rhipidocotyle fennica</i> Taskinen, 1991		
<i>Esox lucius</i>	Uluabat Lake	Öztürk et al. (2000)
<i>Tylodelphys clavata</i> Nordmann, 1832		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Terkos Lake	Soylu (2003)
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Atherina boyeri</i>	İznik Lake	Çolak (2013)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)
<i>Rutilus rutilus</i>	Siğirci Lake	Çolak (2013)
<i>Esox lucius</i>	Siğirci Lake	Çolak (2013)
<i>Silurus glanis</i>	Siğirci Lake	Çolak (2013)
<i>Tetracotyle percae-fluviatilis</i> (Linstow, 1856)		
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)

Table 3 (continuing): Helminth - Host List.

Phylum Platyhelminthes		
Class Cestoda		
<i>Bathybothrium rectangulum</i> (Bloch, 1782)		
<i>Esox lucius</i>	Işikli Dam Lake	Dişçi (2002)
<i>Biacetabulum appendiculatum</i> Szidat, 1937		
<i>Luciobarbus escherichii</i>	Enne Dam Lake	Koyun (2001)
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955		
<i>Cyprinus carpio</i>	İzник Lake	Türkmen (1990)
<i>Rutilus frisii</i>	İzник Lake	Türkmen (1990)
<i>Cyprinus carpio</i>	Karasu Brook, Bendimahi Brook, Engil Brook, Zerne Dam Lake	Topçu (1993)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy (1996)
<i>Tinca tinca</i>	Mogan Lake	Erkul (1997)
<i>Cyprinus carpio</i>	Mogan Lake, Hirfanli Dam Lake, Kirmir Brook	Erkul (1997)
<i>Cyprinus carpio</i>	Karacaören I Dam Lake	Kir (1998)
<i>Cyprinus carpio</i>	Manyas Lake	Öztürk (2000)
<i>Alburnus mossulensis</i>	Manyas Lake	Öztürk (2000)
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Luciobarbus escherichii</i>	Doganci Dam Lake	Aydoğdu (2001)
<i>Squalius cephalus</i>	Doganci Dam Lake	Aydoğdu (2001)
<i>Neogobius fluviatilis</i>	Uluabat Lake	Öztürk et al. (2002)
<i>Silurus glanis</i>	Hirfanli Dam Lake	Aydin (2003)
<i>Capoeta umbla</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Chondrostoma regium</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Cyprinus carpio</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Acanthobrama marmid</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Alburnus mossulensis</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Squalius cephalus</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Cyprinus carpio</i>	Karamik Lake	Kutlu (2005)
<i>Tinca tinca</i>	Beyşehir Lake	Özan (2005)
<i>Cyprinus carpio</i>	Beyşehir Lake	Özan (2005)
<i>Cyprinus carpio</i>	Eber Lake	Öztürk (2005)
<i>Tinca tinca</i>	Kovada Lake	Kir and Özan (2005)

Table 3 (continuing): Helminth - Host List.

<i>Capoeta trutta</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Capoeta umbla</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Chondrostoma regium</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Cyprinus carpio</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Tinca tinca</i>	Sapanca Lake	Akbeniz (2006)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2006)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Cyprinus carpio</i>	Selevir Dam Lake	Öztürk and Bulut (2006)
<i>Cyprinus carpio</i>	Kovada Lake	Kir and Özan (2007)
<i>Rutilus rutilus</i>	Kocadere Stream	Selver (2008)
<i>Cyprinus carpio</i>	Murat River, Aras River	Aslan (2009)
<i>Squalius cephalus</i>	Örenler Dam Lake	Kurupinar (2009)
<i>Cyprinus carpio</i>	Karacaören II Dam Lake	Samanci (2011)
<i>Alburnus chalcoides</i>	Tödürge Lake	Yıldırım and Ünver (2006)
<i>Atherina boyeri</i>	İznic Lake	Çolak (2013)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Caryophyllaeides fennica</i> (Schneider, 1902)		
<i>Rutilus rutilus</i>	Manyas Lake	Öztürk (2000)
<i>Scardinius erythrophthalmus</i>	Manyas Lake	Öztürk (2000)
<i>Caryophyllaeus brachycollis</i> Janiszewska, 1951		
<i>Cyprinus carpio</i>	Antakya Lake	Paperna (1964)
<i>Caryophyllaeus fimbriceps</i> Annenkova-Khlopina, 1919		
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Caryophyllaeus laticeps</i> (Müller, 1781)		
<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanlı Dam Lake, Çankiri- Günerdiğin Pond	Burgu et al. (1988)

Table 3 (continuing): Helminth - Host List.

<i>Cyprinus carpio</i>	İzник Lake	Türkmen (1990)
<i>Cyprinus carpio</i>	Karasu Brook, Bendimahi Brook, Engil Brook, Zerne Dam Lake	Topçu (1993)
<i>Rutilus frisii</i>	İzник Lake	Aydođdu et al. (1997b)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy (1996)
<i>Cyprinus carpio</i>	Karacaören I Dam Lake	Kir (1998)
<i>Cyprinus carpio</i>	Kovada Lake	Becer and Kara (1998)
<i>Blicca bjoerkna</i>	Manyas Lake	Öztürk (2000)
<i>Vimba vimba</i>	Manyas Lake	Öztürk (2000)
<i>Cyprinus carpio</i>	Manyas Lake	Öztürk (2000)
<i>Cyprinus carpio</i>	Karacabey Lagoon Lake	Aydođdu et al. (2001a)
<i>Luciobarbus escherichii</i>	Dođanci Dam Lake	Aydođdu (2001)
<i>Cyprinus carpio</i>	Seyhan River	Şahan and Cengizler (2003)
<i>Luciobarbus pectoralis</i>	Seyhan River	Şahan and Cengizler (2003)
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Cyprinus carpio</i>	Beyşehir Lake	Özan (2005)
<i>Tinca tinca</i>	Beyşehir Lake	Özan (2005)
<i>Tinca tinca</i>	Kovada Lake	Kir and Özan (2005)
<i>Tinca tinca</i>	Sapanca Lake	Akbeniz (2006)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2006)
<i>Cyprinus carpio</i>	Selevir Dam Lake	Öztürk and Bulut (2006)
<i>Cyprinus carpio</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2007)
<i>Vimba vimba</i>	Gölbaşı Dam Lake	Aydođdu et al. (2008)
<i>Blicca bjoerkna</i>	Kocadere Stream	Selver (2008)
<i>Capoeta capoeta</i>	Murat River, Aras River	Aslan (2009)
<i>Acanthobrama marmid</i>	Murat River, Aras River	Aslan (2009)
<i>Cyprinus carpio</i>	Karacaören II Dam Lake	Samanci (2011)
<i>Khawia armeniaca</i> Cholodkovskii, 1878		
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Özdemir and Sarieyyübođlu (1993)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy (1996)
<i>Acanthobrama marmid</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Squalius cephalus</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Capoeta trutta</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Cyprinus carpio</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Capoeta umbla</i>	Karakaya Dam Lake	Örün et al. (2003)
<i>Capoeta umbla</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Cyprinus carpio</i>	Keban Dam Lake	Dörücü and İspir (2005)

Table 3 (continuing): Helminth - Host List.

<i>Ligula intestinalis</i> Lin., 1758		
<i>Capoeta umbla</i>	Cip Lake	Cantoray and Özcan (1975)
<i>Squalius cephalus</i>	Cip Lake	Cantoray and Özcan (1975)
<i>Luciobarbus escherichii</i>	Cip Lake	Cantoray and Özcan (1975)
<i>Acanthobrama marmid</i>	Devegecidi Dam Lake	Başaran and Kelle (1976)
<i>Alburnus mossulensis</i>	Devegecidi Dam Lake	Başaran and Kelle (1976)
<i>Acanthobrama marmid</i>	Devegecidi Dam Lake	Kelle (1978)
<i>Alburnus mossulensis</i>	Devegecidi Dam Lake	Kelle (1978)
<i>Silurus glanis</i>	Sariyar Dam Lake	Keskin and Erakan (1987)
<i>Chondrostoma regium</i>	Keban Dam Lake	Keskin and Erakan (1987)
<i>Vimba vimba</i>	Kumkaya Dam Lake	Keskin and Erakan (1987)
<i>Capoeta capoeta</i>	Demirkopru Dam Lake	Keskin and Erakan (1987)
<i>Alburnus orontis</i>	Kizilirmak Brook, Yeniköy Stream, Çayırhan Stream, Kumkaya Dam Lake, Enne Dam Lake	Keskin and Erakan (1987)
<i>Garra rufa</i>	Cag-cag Stream	Keskin and Erakan (1987)
<i>Squalius cephalus</i>	Hamidiye, Pazarkavşağı Bridge	Keskin and Erakan (1987)
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook	Burgu et al. (1988)
<i>Esox lucius</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station	Burgu et al. (1988)
<i>Tinca tinca</i>	Mogan Lake	Burgu et al. (1988)
<i>Vimba vimba</i>	Sariyar Dam Lake	Ekmekçi (1989)
<i>Alburnus orontis</i>	Almus Dam Lake	Cengizler et al. (1991)
<i>Squalius cephalus</i>	Almus Dam Lake	Cengizler et al. (1991)
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Özdemir and Sarieyyüboğlu (1993)
<i>Alburnus alburnus</i>	Upper Porsuk Basin	Yılmaz et al. (1996)
<i>Cyprinus carpio</i>	Kovada Lake	Becer and Kara (1998)
<i>Cyprinus carpio</i>	Karacaören I Dam Lake	Kir (1998)
<i>Luciobarbus pectoralis</i>	Karacaören I Dam Lake	Kir (1998)
<i>Alburnus alburnus</i>	Kutahya Region Lakes	Koyun et al. (1999)
<i>Squalius cephalus</i>	Yeşilköy Pond	Bulgen (1999)
<i>Alburnus mossulensis</i>	Manyas Lake	Öztürk (2000)
<i>Rutilus rutilus</i>	Manyas Lake	Öztürk (2000)

Table 3 (continuing): Helminth - Host List.

<i>Acanthobrama marmid</i>	Keban Dam Lake	Türk (2000)
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Tinca tinca</i>	Beyşehir Lake	Yildiz et al. (2003)
<i>Rutilus rutilus</i>	Yenice Pond	Oğuz et al. (2004)
<i>Alburnus orontis</i>	Çamkoru Pond	İnnal (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Squalius cephalus</i>	Gelingüllü Dam Lake	Ekmekçi and Kirankaya (2004)
<i>Tinca tinca</i>	Kovada Lake	Kir and Özcan (2005)
<i>Capoeta bergamae</i>	Topcam Dam Lake	Şaşı (2005)
<i>Squalius cephalus</i>	Çaparlipatlak Dam Lake	Torcu-Koç et al. (2006)
<i>Chondrostoma regium</i>	Almus Dam Lake	Özgül and Turgut (2006)
<i>Rhodeus amarus</i>	Sapanca Lake	Akmirza (2007)
<i>Alburnus orontis</i>	Çamlidere Dam Lake	İnnal et al. (2007)
<i>Alburnus orontis</i>	Kirmir Creek	İnnal et al. (2007)
<i>Alburnus orontis</i>	Bulak Stream	İnnal et al. (2007)
<i>Alburnus orontis</i>	Mogan Lake	İnnal et al. (2007)
<i>Alburnoides bipunctatus</i>	Kirmir Creek	İnnal et al. (2007)
<i>Cyprinus carpio</i>	Çamlidere Dam Lake	İnnal et al. (2007)
<i>Cyprinus carpio</i>	Aksu River	İnnal et al. (2007)
<i>Tinca tinca</i>	Abant Lake	İnnal et al. (2007)
<i>Tinca tinca</i>	Yeniçağa Lake	İnnal et al. (2007)
<i>Vimba vimba</i>	Yamansaz Lake	İnnal et al. (2007)
<i>Barbus plebejus</i>	Çildir Lake	İnnal et al. (2007)
<i>Barbus plebejus</i>	Barhal Creek	İnnal et al. (2007)
<i>Barbus plebejus</i>	Almus Dam Lake	Develi (2008)
<i>Chondrostoma nasus</i>	Kunduzlar Dam Lake	Özbek (2009)
<i>Squalius cephalus</i>	Kunduzlar Dam Lake	Özbek (2009)
<i>Alburnus escherichii</i>	Kunduzlar Dam Lake	Özbek (2009)
<i>Squalius cephalus</i>	Örenler Dam Lake	Kurupinar (2009)
<i>Alburnus escherichii</i>	Çamkoru Pond	İnnal et al. (2010)
<i>Gobio gobio</i>	Çamkoru Pond	İnnal et al. (2010)
<i>Squalius cephalus</i>	Çamkoru Pond	İnnal et al. (2010)
<i>Alburnus orontis</i>	Almus Dam Lake	Turgut et al. (2011)
<i>Squalius cephalus</i>	Almus Dam Lake	Turgut et al. (2011)
<i>Cyprinus carpio</i>	Almus Dam Lake	Turgut et al. (2011)
<i>Capoeta tinca</i>	Almus Dam Lake	Turgut et al. (2011)
<i>Capoeta capoeta</i>	Almus Dam Lake	Turgut et al. (2011)
<i>Ligula pavlovskii</i> Dubinina, 1959		
<i>Neogobius fluviatilis</i>	Manyas Lake	Öztürk (2000)
<i>Neogobius fluviatilis</i>	Uluabat Lake	Öztürk et al. (2002)

Table 3 (continuing): Helminth - Host List.

<i>Monobothrium auriculatum</i> Kulakovskaya, 1961		
<i>Capoeta damascina</i>	Hazar Lake	Aksoy (1996)
<i>Paradilepis scolecina</i> Rudolphi, 1935		
<i>Cyrprinus carpio</i>	Akşehir Lake	Buhurcu (2006)
<i>Proteocephalus osculatus</i> (Goeze, 1782)		
<i>Silurus glanis</i>	Gölbaşı Lake, Eymir Lake, Sarıyar Dam Lake	Burgu et al. (1988)
<i>Silurus glanis</i>	Hirfanlı Dam Lake	Aydin (2003)
<i>Proteocephalus percae</i> (Müler, 1780)		
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Soylu (2013)
<i>Proteocephalus torulosus</i> (Batsch, 1786)		
<i>Tinca tinca</i>	Kovada Lake	Kir and Özcan (2005)
<i>Tinca tinca</i>	Beyşehir Lake	Özcan (2005)
<i>Polyonchobothrium magnum</i> (Zme'ev, 1936)		
<i>Clarias gariepinus</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2005)
<i>Postgangesia inarmata</i> de Chambrier, Al-Kallak and Mariaux, 2003		
<i>Silurus triostegus</i>	Atatürk Dam Lake	Öktener and Alaş (2009)
<i>Senga mastacembeli</i> Rahemo, 1996		
<i>Mastacembelus mastacembelus</i>	Atatürk Dam Lake	Öktener and Alaş (2009)
<i>Silurotaenia siluri</i> (Batsch, 1786)		
<i>Silurus glanis</i>	Sapanca Lake	Soylu (1990)

Table 3 (continuing): Helminth - Host List.

<i>Triaenophorus crassus</i> Forel, 1880		
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
Phylum Nematoda		
<i>Camallanus truncatus</i> (Rudolphi, 1814)		
<i>Esox lucius</i>	Işikli Dam Lake	Dişçi (2002)
<i>Eustrongylides excisus</i> Jagerskiold, 1909		
<i>Neogobius fluviatilis</i>	Manyas Lake	Öztürk (2000)
<i>Neogobius fluviatilis</i>	Uluabat Lake	Öztürk et al. (2002)
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Silurus glanis</i>	Terkos Lake	Soylu (2005)
<i>Aphanius mento</i>	Kirkgöz Stream	Aydoğdu et al. (2011)
<i>Pseudophoxinus battalgilae</i>	Manavgat River	Aydoğdu et al. (2011)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Atherina boyeri</i>	İznic Lake	Çolak (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Molnaria intestinalis</i> Dogiel and Bychowsky, 1934		
<i>Squalius lepidus</i>	Atatürk Dam Lake	Dal (2006)
<i>Philometra intestinalis</i> Dogiel and Bykhovs., 1934		
<i>Chondrostoma</i> sp.	Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Philometra ovate</i> (Zeder, 1803)		
<i>Squalius cephalus</i>	Seydisuyu Stream	Keskin (1988)
<i>Capoeta umbla</i>	Hazar Lake	Aksoy (1996)
<i>Squalius cephalus</i>	Enne Dam Lake	Koyun (2001)
<i>Squalius cephalus</i>	Çamkoru Lake	İnnal and Keskin (2005)
<i>Philometra rischta</i> Skrjabin, 1923		
<i>Capoeta umbla</i>	Hazar Lake	Aksoy et al. (2006)

Table 3 (continuing): Helminth - Host List.

<i>Pseudocapillaria tomentosa</i> (Dujardin, 1843)		
<i>Cyprinus carpio</i>	Manyas Lake	Öztürk (2000)
<i>Raphidascaris acus</i> (Bloch, 1779)		
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Esox lucius</i>	Uluabat Lake	Öztürk (1995)
<i>Esox lucius</i>	Karacabey Lagoon Lake	Öztürk et al. (2002)
<i>Esox lucius</i>	Işikli Dam Lake	Dişçi (2002)
<i>Esox lucius</i>	Gölbaşı Dam Lake	Aydoğdu et al. (2008)
<i>Rhabdochona denudata</i> (Dujardin, 1845)		
<i>Cyprinus carpio</i>	Karasu Brook, Bendimahi Brook, Engil Brook, Zerne Dam Lake	Topçu (1993)
<i>Luciobarbus pectoralis</i>	Karacaören I Dam Lake	Kir (1998)
<i>Squalius cephalus</i>	Doganci Dam Lake	Aydoğdu (2001)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Capoeta capoeta</i>	Murat River, Aras River	Aslan (2009)
<i>Barbus plebejus</i>	Murat River, Aras River	Aslan (2009)
<i>Barbus musra</i>	Murat River, Aras River	Aslan (2009)
<i>Capoeta antalyensis</i>	Köprüçay River	Aydoğdu et al. (2011)
<i>Skrjabillanus scardinii</i> Molnár, 1966		
<i>Scardinius erythrophthalmus</i>	Kocadere Stream	Selver (2008)
<i>Spiroxys contortus</i> Rudolphi, 1819		
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
Phylum Acanthocephala		
<i>Acanthocephalus anguillae</i> Müller, 1780		
<i>Esox lucius</i>	Uluabat Lake	Öztürk (1995)
<i>Tinca tinca</i>	Beyşehir Lake	Özan (2005)

Table 3 (continuing): Helminth - Host List.

<i>Neoechinorhynchus rutili</i> (Müller, 1780)		
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sarıyar Dam Lake, Kızılcahamam Brook	Burgu et al. (1988)
<i>Barbus</i> sp.	Çifteler-Sakaryabaşı Fish Production Station, Sarıyar Dam Lake	Burgu et al. (1988)
<i>Cyprinus carpio</i>	İznik Lake	Türkmen (1990)
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Cyprinus carpio</i>	Karasu Brook, Bendimahi Brook, Engil Brook, Zerne Dam Lake	Topçu (1993)
<i>Cyprinus carpio</i>	İznik Lake	Aydoğdu et al. (1997a)
<i>Rutilus frisii</i>	İznik Lake	Aydoğdu et al. (1997b)
<i>Rutilus rubilio</i>	İznik Lake	Aydoğdu et al. (2000)
<i>Esox lucius</i>	İşikli Dam Lake	Dişçi (2002)
<i>Capoeta trutta</i>	Keban Dam Lake	Sarıyüboğlu and Sağlam (2002)
<i>Capoeta trutta</i>	Karakaya Dam Lake	Örüm et al. (2003)
<i>Capoeta umbla</i>	Karakaya Dam Lake	Örüm et al. (2003)
<i>Chondrostoma regium</i>	Karakaya Dam Lake	Örüm et al. (2003)
<i>Cyprinus carpio</i>	Karakaya Dam Lake	Örüm et al. (2003)
<i>Luciobarbus esocinus</i>	Karakaya Dam Lake	Örüm et al. (2003)
<i>Luciobarbus esocinus</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Capoeta umbla</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Chondrostoma regium</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Cyprinus carpio</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Capoeta trutta</i>	Atatürk Dam Lake	Dal (2006)
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
<i>Neoechinorhynchus zabensis</i> Amin, Abdullah, and Mhaisen, 2003		
<i>Capoeta barroisi</i>	Murat River	Oğuz et al. (2012)
<i>Pomphorhynchus laevis</i> (Müller, 1776)		

Table 3 (continuing): Helminth - Host List.

<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanli Dam Lake, Çankiri-Günerdiğin Pond	Burgu et al. (1988)
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook	Burgu et al. (1988)
<i>Silurus glanis</i>	Gölbaşı Lake, Eymir Lake, Sariyar Dam Lake	Burgu et al. (1988)
<i>Esox lucius</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station	Burgu et al. (1988)
<i>Luciobarbus escherichii</i>	Karasu (Sakarya) Büyükcoz Lake	Soylu (1991)
<i>Alburnus alburnus</i>	Enne Dam Lake	Koyun (2001)
<i>Carassius carassius</i>	Enne Dam Lake	Koyun (2001)
<i>Carassius auratus</i>	Enne Dam Lake	Koyun (2001)
<i>Squalius cephalus</i>	Enne Dam Lake	Koyun (2001)
<i>Nemacheilus</i> sp.	Enne Dam Lake	Koyun (2001)
<i>Tinca tinca</i>	Kapulukaya Dam Lake	Yildiz (2003)
<i>Alburnus nasreddini</i>	Akşehir Lake	Buhurcu (2006)
<i>Squalius cephalus</i>	Örenler Dam Lake	Kurupinar (2009)
<i>Pomphorhynchus tereticollis</i> (Rudolphi, 1809)		
<i>Cobitis bilseli</i>	Beyşehir Lake	Smales et al. (2012)
<i>Pseudoechinorhynchus clavula</i> Dujardin, 1845		
<i>Cyprinus carpio</i>	Karasu Brook, Bendimahi Brook, Engil Brook, Zerne Dam Lake	Topçu (1993)
<i>Triaspiron aphanii</i> Smales, Aydoğdu, Emre, 2012		
<i>Aphanius mento</i>	Kirkgöz Springs	Smales et al. (2012)

Table 3 (continuing): Helminth - Host List.

Phylum Annelida		
<i>Cystobranchus respirans</i> (Troschel, 1850)		
<i>Salmo trutta fario</i>	Kaz Dağı Brook	Geldiay and Balik (1974)
<i>Hemiclepsis marginata</i> Müller, 1774		
<i>Cyprinus carpio</i>	Marmara Lake, Bafa Lake	Geldiay and Balik (1974)
<i>Cyprinus carpio</i>	Çapalı Lake	Ceylan (2002)
<i>Esox lucius</i>	Çapalı Lake	Ceylan (2002)
<i>Hirudo medicinalis</i> Linnaeus, 1758		
<i>Esox lucius</i>	Çapalı Lake	Ceylan (2002)
<i>Cyprinus carpio</i>	Çapalı Lake	Ceylan (2002)
<i>Piscicola geometra</i> Linnaeus, 1761		
<i>Rutilus rutilus</i>	Sapanca Lake	Soylu (1990)
<i>Scardinius erythrophthalmus</i>	Sapanca Lake	Soylu (1990)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (1990)
<i>Tinca tinca</i>	Sapanca Lake	Soylu (1990)
<i>Esox lucius</i>	Sapanca Lake	Soylu (1990)
<i>Luciobarbus mystaceus</i>	Keban Dam Lake	Sağlam (1992)
<i>Tinca tinca</i>	Uluabat Lake	Öztürk (2002)
<i>Abramis brama</i>	Terkos Lake	Karatoy (2004)
<i>Scardinius erythrophthalmus</i>	Terkos Lake	Kahveci (2004)
<i>Cyprinus carpio</i>	Çavuşçu Lake	Öktener et al. (2007)
<i>Carassius gibelio</i>	Uluabat Lake	Emiroğlu and Arslan (2009)
<i>Rutilus rutilus</i>	Uluabat Lake	Ceylan et al. (2011)
<i>Trachelobdella torquata</i> (Grube, 1871)		
<i>Carassius carassius</i>	Kovada Lake	Özan and Kir (2005)

Table 4: Host - Helminth List.

<i>Silurus glanis</i> Linnaeus, 1758
<i>Ancylo-discoides siluri</i> Zandt, 1924
<i>Ancylo-discoides vistulensis</i> Sivak, 1932
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Bucephalus polymorphus</i> Baer, 1827
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Orientocreadium siluri</i> Bykhovski and Dubi., 1954
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Proteocephalus osculatus</i> (Goeze, 1782)
<i>Silurotaenia siluri</i> (Batsch, 1786)
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Sander lucioperca</i> (Linnaeus, 1758)
<i>Ancyrocephalus paradoxus</i> Creplin, 1839
<i>Bucephalus polymorphus</i> Baer, 1827
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Proteocephalus percae</i> (Müller, 1780)
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Capoeta umbla</i> (Heckel, 1843)
<i>Dactylogyrus affinis</i> Bychowsky, 1933
<i>Dactylogyrus auriculatus</i> (Nordmann, 1832)
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Dactylogyrus malleus</i> Linstow, 1877
<i>Dactylogyrus minutus</i> Kulwiec, 1927
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Philometra intestinalis</i> Dogiel and Bykhovs., 1934
<i>Philometra ovata</i> (Zeder, 1803)
<i>Philometra rischta</i> Skrjabin, 1923
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Alburnus alburnus</i> (Linnaeus, 1758)
<i>Dactylogyrus alatus</i> Linstow, 1878
<i>Dactylogyrus fraternus</i> Wagener, 1909

Table 4 (continuing): Host - Helminth List.

<i>Diplozoon homoion</i> Bykhovskii and Nagibi, 1959
<i>Allocreadium isoporum</i> Looss, 1894
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Chondrostoma regium</i> (Heckel, 1843)
<i>Dactylogyrus alatus</i> Linstow, 1878
<i>Dactylogyrus elegantis</i> Gusev, 1966
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Dactylogyrus vistulae</i> Prost, 1957
<i>Gyrodactylus elegans</i> Nordmann, 1832
<i>Gyrodactylus macrocornis</i> Ergens, 1963
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Alburnus heckeli</i> Battalgi, 1943
<i>Dactylogyrus alatus</i> Linstow, 1878
<i>Cyprinus carpio</i> Linnaeus, 1758
<i>Dactylogyrus anchoratus</i> (Dujardin, 1845)
<i>Dactylogyrus ancylostylus</i> Linstow, 1878
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Dactylogyrus minutus</i> Kulwiec, 1927
<i>Dactylogyrus phoxini</i> (Malevitskaya, 1949)
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Diplozoon homoion</i> Bykhovskii and Nagibi, 1959
<i>Gyrodactylus elegans</i> Nordmann, 1832
<i>Gyrodactylus scardinii</i> Malmberg, 1956
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Posthodiplostomum cuticola</i> Nordmann, 1832
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus brachycollis</i> Janiszewska, 1951
<i>Caryophyllaeus fimbriceps</i> Annenkova-Khlopina, 1919
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Paradilepis scolecina</i> Rudolphi, 1935
<i>Pseudocapillaria tomentosa</i> (Dujardin, 1843)
<i>Rhabdochona denudata</i> (Dujardin, 1845)

Table 4 (continuing): Host - Helminth List.

<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Pseudoechinorhynchus clavula</i> Dujardin, 1845
<i>Hemiclepsis marginata</i> Müller, 1774
<i>Hirudo medicinalis</i> Linnaeus, 1758
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Carassius carassius</i> (Linnaeus, 1758)
<i>Dactylogyrus anchoratus</i> (Dujardin, 1845)
<i>Dactylogyrus minutus</i> Kulwiec, 1927
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Gyrodactylus katharineri</i> Malmberg, 1964
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Carassius auratus</i> (Linnaeus, 1758)*
<i>Dactylogyrus anchoratus</i> (Dujardin, 1845)
<i>Gyrodactylus katharineri</i> Malmberg, 1964
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Carassius gibelio</i> (Bloch, 1782)*
<i>Dactylogyrus anchoratus</i> (Dujardin, 1845)
<i>Dactylogyrus baueri</i> Gussev, 1955
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Dactylogyrus inexpectatus</i> Izjumova, 1955
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Gyrodactylus scardinii</i> Malmberg, 1956
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Luciobarbus pectoralis</i> (Heckel, 1843)
<i>Dactylogyrus ancylostylus</i> Linstow, 1878
<i>Dactylogyrus minutus</i> Kulwiec, 1927
<i>Diplozoon barbi</i> Nordman, 1832
<i>Gyrodactylus elegans</i> Nordmann, 1832
<i>Phyllodistomum elongatum</i> Nybelin, 1926
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Luciobarbus esocinus</i> Heckel, 1843
<i>Dactylogyrus ancylostylus</i> Linstow, 1878
<i>Dactylogyrus asper</i> Linstow, 1878
<i>Neoechinorhynchus rutili</i> (Müller, 1780)

Table 4 (continuing): Host - Helminth List.

<i>Luciobarbus mystaceus</i> (Pallas, 1814)
<i>Dactylogyrus asper</i> Linstow, 1878
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Rhodeus amarus</i> (Bloch, 1782)
<i>Dactylogyrus bicornis</i> Malevitskaya, 1941
<i>Diplozoon paradoxum</i> Nordman, 1832
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Luciobarbus escherichii</i> (Steindachner, 1897)
<i>Dactylogyrus carpathicus</i> Zakhvatkin, 1951
<i>Allocreadium isoporum</i> Looss, 1894
<i>Biacetabulum appendiculatum</i> Szidat, 1937
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Alburnus chalcoides</i> (Güldenstädt, 1772)
<i>Dactylogyrus chalcalburni</i> Dogiel and Bychowsky 1833
<i>Diplozoon paradoxum</i> Nordman, 1832
<i>Paradiplozoon Megan</i> Bykhovskii and Nagibi, 1959
<i>Posthodiplostomum cuticola</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Blicca bjoerkna</i> (Linnaeus, 1758)
<i>Dactylogyrus cornu</i> Linstow, 1878
<i>Dactylogyrus cornoides</i> (Gläser and Gussev, 1971)
<i>Dactylogyrus crucifer</i> Wagener, 1857
<i>Dactylogyrus difformoides</i> Glaser and Gusev, 1967
<i>Dactylogyrus distinguendus</i> (Linstow, 1878)
<i>Dactylogyrus falcatus</i> (Wedl, 1857)
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Dactylogyrus wunderi</i> Bykhovskii, 1931
<i>Aspidogaster limacoides</i> Diesing, 1835
<i>Asymphyllodora imitans</i> (Mühling, 1898)
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Posthodiplostomum cuticola</i> Nordmann, 1832
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Piscicola geometra</i> Linnaeus, 1761

Table 4 (continuing): Host - Helminth List.

<i>Vimba vimba</i> (Linnaeus, 1758)
<i>Dactylogyrus cornu</i> Linstow, 1878
<i>Dactylogyrus cornoides</i> (Gläser and Gussev, 1971)
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Aspidogaster limacoides</i> Diesing, 1835
<i>Posthodiplostomum cuticola</i> Nordmann, 1832
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Rutilus frisii</i> (Nordmann, 1840)
<i>Dactylogyrus crucifer</i> Wagener, 1857
<i>Dactylogyrus frisii</i> Bychowsky, 1933
<i>Dactylogyrus nybelini</i> Markewitsch, 1933
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Rutilus rutilus</i> (Linnaeus, 1758)
<i>Dactylogyrus crucifer</i> Wagener, 1857
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Dactylogyrus vistulae</i> Prost, 1957
<i>Diplozoon homoion</i> Bykhovskii and Nagibi, 1959
<i>Diplozoon paradoxum</i> Nordman, 1832
<i>Aspidogaster limacoides</i> Diesing, 1835
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Opisthorchis felinus</i> (Rivolta, 1884)
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeides fennica</i> (Schneider, 1902)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Capoeta tinca</i> (Heckel, 1843)
<i>Dactylogyrus crucifer</i> Wagener, 1857
<i>Gyrodactylus narzikulovi</i> Ergens and Dzhililov, 1979
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Scardinius erythrophthalmus</i> (Linnaeus, 1758)
<i>Dactylogyrus difformis</i> Wagener, 1857
<i>Dactylogyrus difformoides</i> Glaser and Gusev, 1967

Table 4 (continuing): Host - Helminth List.

<i>Dactylogyrus izjumovae</i> Gusev, 1966
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Asymphyiodora markewitschi</i> Kulakovskaya, 1947
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Posthodiplostomum cuticola</i> Nordmann, 1832
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Tetracotyle percae-fluviatilis</i> (Linstow, 1856)
<i>Caryophyllaeides fennica</i> (Schneider, 1902)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Skrjabillanus scardinii</i> Molnár, 1966
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Abramis brama</i> (Linnaeus, 1758)
<i>Dactylogyrus distinguendus</i> (Linstow, 1878)
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Tetracotyle percae-fluviatilis</i> (Linstow, 1856)
<i>Squalius cephalus</i> (Linnaeus, 1758)
<i>Dactylogyrus elegantis</i> Gusev, 1966
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Dactylogyrus folkmanovae</i> Ergens, 1956
<i>Dactylogyrus naviculoides</i> Ergens, 1960
<i>Dactylogyrus prostaе</i> Molnar, 1964
<i>Dactylogyrus vistulae</i> Prost, 1957
<i>Paradiplozoon Megan</i> Bykhovskii and Nagibi, 1959
<i>Allocreadium isoporum</i> Looss, 1894
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Philometra ovata</i> (Zeder, 1803)
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Tinca tinca</i> (Linnaeus, 1758)
<i>Dactylogyrus macrocanthus</i> Wagener, 1857
<i>Gyrodactylus medius</i> Kathariner, 1894
<i>Asymphyiodora tincae</i> (Mooder, 1790)
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955

Table 4 (continuing): Host - Helminth List.

<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Proteocephalus torulosus</i> (Batsch, 1786)
<i>Acanthocephalus anguillae</i> Müller, 1780
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Barbus plebejus</i> Bonaparte, 1839
<i>Dactylogyrus malleus</i> Linstow, 1877
<i>Gyrodactylus elegans</i> Nordmann, 1832
<i>Gyrodactylus hemibarbi</i> (Ergens, 1980)
<i>Allocreadium isoporum</i> Looss, 1894
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Pseudophoxinus antalyae</i> Bogutskaya, 1992
<i>Dactylogyrus ergensi</i> Molnar, 1964
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Diplozoon homoion</i> Bykhovskii and Nagibi, 1959
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Barbus grypus</i> Heckel, 1843
<i>Dactylogyrus extensus</i> Mueller and Cleave, 1932
<i>Capoeta capoeta</i> (Güldenstädt, 1773)
<i>Dactylogyrus pulcher</i> Bychowsky, 1957
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Esox lucius</i> Linnaeus, 1758
<i>Tetraonchus monenteron</i> Diesing, 1858
<i>Asymphylodora tincae</i> (Mooder, 1790)
<i>Bucephalus polymorphus</i> Baer, 1827
<i>Diplostomum spathaecum</i> (Rudolphi, 1819)
<i>Diplodiscus subclavatus</i> Diesing, 1836
<i>Rhipidocotyle fennica</i> Taskinen, 1991
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bathybothrium rectangulum</i> (Bloch, 1782)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Triaenophorus crassus</i> Forel, 1880
<i>Camallanus truncatus</i> (Rudolphi, 1814)

Table 4 (continuing): Host - Helminth List.

<i>Raphidascaris acus</i> (Bloch, 1779)
<i>Acanthocephalus anguillae</i> Müller, 1780
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Hemiclepsis marginata</i> Müller, 1774
<i>Hirudo medicinalis</i> Linnaeus, 1758
<i>Piscicola geometra</i> Linnaeus, 1761
<i>Garra rufa</i> (Heckel, 1843)
<i>Dactylogyrus rectotrabus</i> Gussev, Jalali and Molnar, 1993
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Capoeta trutta</i> (Heckel, 1843)
<i>Diplozoon barbi</i> Nordman, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Rutilus rubilio</i> (Bonaparte, 1837)
<i>Dactylogyrus sphyrna</i> Linstow, 1828
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Aphanius</i> sp.
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Alburnus orontis</i> Sauvage, 1882
<i>Dactylogyrus vastator</i> (Nybelin, 1924)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Acantobrama marmid</i> Heckel, 1843
<i>Diplozoon paradoxum</i> Nordman, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Caryophyllaeus laticeps</i> (Müller, 1781)
<i>Khawia armeniaca</i> Cholodkovskii, 1878
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Capoeta damascina</i> (Valenciennes, 1842)
<i>Dogielius forceps</i> Bychowsky, 1936
<i>Monobothrium auriculatum</i> Kulakovskaya, 1961
<i>Gasterosteus aculeatus</i> Linnaeus, 1758*
<i>Gyrodactylus arcuatus</i> Bychowsky, 1933

Table 4 (continuing): Host - Helminth List.

<i>Cobitis simplicispina</i> Hankó, 1925
<i>Gyrodactylus cobitis</i> Bychowsky, 1933
<i>Neogobius fluviatilis</i> (Pallas, 1814)*
<i>Gyrodactylus gobii</i> Shul'man, 1953
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Ligula pavlovskii</i> Dubinina, 1959
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Neogobius melanostomus</i> (Pallas, 1814)*
<i>Gyrodactylus proterorhini</i> Ergens, 1967
<i>Pygidiopsis genata</i> Looss, 1907
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Lepomis gibbosus</i> (Linnaeus, 1758)*
<i>Onchocleidus similis</i> Mueller, 1936
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Clarias gariepinus</i> (Burchell, 1822)
<i>Quadriacanthus clariadis</i> (Paperna, 1961)
<i>Orientocreadium batrachoides</i> Tubangui, 1931
<i>Polyonchobothrium magnum</i> (Zme'ev, 1936)
<i>Alburnus</i> sp.
<i>Asymphylogora tincae</i> (Mooder, 1790)
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Barbus</i> sp.
<i>Asymphylogora tincae</i> (Mooder, 1790)
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Knipowitschia caucasica</i> (Berg, 1916)
<i>Bucephalus polymorphus</i> Baer, 1827
<i>Chondrostoma</i> sp.
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Philometra intestinalis</i> Dogiel and Bykhowsky, 1934

Table 4 (continuing): Host - Helminth List.

<i>Varcorhinus</i> sp.
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Perca fluviatilis</i> Linnaeus, 1758
<i>Clinostomum complanatum</i> Rudolphi, 1819
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Proteocephalus percae</i> (Müller, 1780)
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Salmo trutta abanticus</i> Tortonese, 1954
<i>Crepidostomum farionis</i> (Muller, 1780)
<i>Salmo trutta fario</i> Linnaeus, 1758
<i>Posthodiplostomum minimum</i> Maccallum, 1921
<i>Cystobranchnus respirans</i> (Troschel, 1850)
<i>Atherina boyeri</i> Risso, 1810*
<i>Tylodelphys clavata</i> Nordmann, 1832
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Alburnus mossulensis</i> Heckel, 1843
<i>Bothriocephalus acheilognathi</i> Yamaguti, 1955
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Capoeta bergamae</i> Karaman, 1969
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Alburnoides bipunctatus</i> (Bloch, 1782)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Chondrostoma nasus</i> (Linnaeus, 1758)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Alburnus escherichii</i> Steindachner, 1897
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Gobio gobio</i> (Linnaeus, 1758)
<i>Ligula intestinalis</i> Linnaeus, 1758
<i>Aphanius mento</i> (Heckel, 1843)
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Triaspiroon aphanii</i> Smales, Aydođdu and Emre, 2012

Table 4 (continuing): Host - Helminth List.

<i>Pseudophoxinus battalgilae</i> Bogutskaya, 1997
<i>Eustrongylides excisus</i> Jagerskiold, 1909
<i>Squalius lepidus</i> Heckel, 1843
<i>Molnaria intestinalis</i> Dogiel and Bychowsky, 1934
<i>Capoeta antalyensis</i> (Battalgil, 1943)
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Luciobarbus mursa</i> (Güldenstädt, 1773)
<i>Rhabdochona denudata</i> (Dujardin, 1845)
<i>Aphanius chantrei</i> (Gaillard, 1895)
<i>Spiroxys contortus</i> Rudolphi, 1819
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Aphanius danfordii</i> (Boulenger, 1890)
<i>Spiroxys contortus</i> Rudolphi, 1819
<i>Neoechinorhynchus rutili</i> (Müller, 1780)
<i>Capoeta barroisi</i> Lortet, 1894
<i>Neoechinorhynchus zabensis</i> Amin, Abdullah and Mhaisen, 2003
<i>Nemacheilus</i> sp.
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Alburnus nasreddini</i> Battalgil, 1943
<i>Pomphorhynchus laevis</i> (Müller, 1776)
<i>Cobitis bilseli</i> Battalgil, 1942
<i>Pomphorhynchus tereticollis</i> (Rudolphi, 1809)
<i>Silurus triostegus</i> Heckel, 1843
<i>Senga mastacembeli</i> Rahemo, 1996

Atherina boyeri introduced into several western lakes and Beyşehir Lake - *Lepomis gibbosus*, *Carassius gibelio*, *Carassius auratus* are not native to Turkey, they were introduced into the lakes and rivers.

Gasterosteus aculeatus is distributed in the Black Sea, Marmara Sea, Aegean Sea and Mediterranean Sea and adjacent watersheds; *Neogobius fluviatilis* in the Black Sea watersheds; *Neogobius melanostomus* in the Black Sea, Marmara Sea, Aegean Sea and the Caspian Sea watersheds.

Table 5: Unnamed helminth species (at genera level) on freshwater fishes of Turkey.

Phylum Platyhelminthes		
Class Monogenea		
<i>Ancyrocephalus</i> sp.		
<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Paradiplozoon</i> sp.		
<i>Abramis brama</i>	Terkos Lake	Soylu (2009)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Cleidodiscus</i> sp.		
<i>Silurus glanis</i>	Gölbaşı Lake	Ekingen (1976)
<i>Diplozoon</i> sp.		
<i>Scardinius erythrophthalmus</i>	Karacabay Lagoon Lake	Öztürk et al. (2002)
<i>Dactylogyrus</i> sp.		
<i>Tinca tinca</i>	Gölbaşı Lake, Eymir Lake	Burgu et al. (1988)
<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanlı Dam Lake, Çankiri-Günerdiğin Pond	Burgu et al. (1988)
<i>Alburnus</i> sp.	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook	Burgu et al. (1988)
<i>Silurus glanis</i>	Gölbaşı Lake, Eymir Lake, Sariyar Dam Lake	Burgu et al. (1988)
<i>Barbus</i> sp.	Çifteler-Sakaryabaşı Fish Production Station, Sariyar Dam Lake	Burgu et al. (1988)
<i>Chondrostoma</i> sp.	Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Varicorhinus</i> sp.	Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Çankiri-Günerdiğin Pond, Nallihan Brook, Kizilcahamam Brook	Burgu et al. (1988)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Cyprinus carpio</i>	Kocadere Lake, Uluabat Lake, Ekinli Lagoon Lake	Altin (1989)
<i>Cyprinus carpio</i>	Kocadere Lake, Uluabat Lake, Ekinli Lagoon Lake	Oğuz (1991)
<i>Tinca tinca</i>	İznik Lake	Aydoğdu et al. (1996a)
<i>Tinca tinca</i>	Mogan Lake	Sönmez (1996)
<i>Cyprinus carpio</i>	Mogan Lake	Sönmez (1996)
<i>Alburnus escherichii</i>	Mogan Lake	Sönmez (1996)
<i>Cyprinus carpio</i>	Çifteler-Sakaryabaşı Fish Production Sitation	Atay et al. (1999)
<i>Vimba vimba</i>	Sirakaraağaçlar Stream	Ünsal (2008)
<i>Cyprinus carpio</i>	Halil-ür Rahman Lake	Pişkin and Ütük (2008)
<i>Capoeta capoeta</i>	Almus Dam Lake	Özgül (2008)
<i>Gyrodactylus sp.</i>		
<i>Salmo trutta fario</i>	İstanbul Brook	Soylu (1985)
<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanli Dam Lake, Çankiri-Günerdiğin Pond	Burgu et al. (1988)
<i>Alburnus sp.</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook	Burgu et al. (1988)
<i>Chondrostoma sp.</i>	Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Varicorhinus sp.</i>	Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Çankiri-Günerdiğin Pond, Kizilcahamam Brook, Nallihan Brook	Burgu et al. (1988)
<i>Barbus sp.</i>	Gölbaşı Lake, Eymir Lake, Sariyar Dam Lake	Burgu et al. (1988)
<i>Cyprinus carpio</i>	Bekteşaga Pond	Özer (1995)
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Chondrostoma regium</i>	Almus Dam Lake	Özgül and Turgut (2006)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
<i>Aphanius danfordii</i>	Sirakaraağaçlar Stream	Ünsal (2008)
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Ünsal (2008)
<i>Capoeta capoeta</i>	Almus Dam Lake	Özgül (2008)
<i>Capoeta tinca</i>	Almus Dam Lake	Özgül (2008)
<i>Cyrinus carpio</i>	Emre Dam Lake	Öztürk (2011)
<i>Carassius auratus</i>	Emre Dam Lake	Öztürk (2011)
<i>Carassius carassius</i>	Emre Dam Lake	Öztürk (2011)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2012)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)
<i>Salsuginus sp.</i>		
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
<i>Aphanius danfordii</i>	Sirakaraağaçlar Stream	Ünsal (2008)
<i>Tetraonchus sp.</i>		
<i>Esox lucius</i>	Mogan Lake	Sönmez (1996)
<i>Acanthobrama marmid</i>	Tigem Reservoirs	Zeren (2008)
Phylum Platyhelminthes		
Class Digenea		
<i>Ascocotyle sp.</i>		
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)
<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
<i>Digenea sp.</i>		
<i>Tinca tinca</i>	Mogan Lake, Hirfanli Dam Lake, Kizilcahamam Brook	Erkul (1997)
<i>Tinca tinca</i>	Kapulukaya Dam Lake	Yildiz (2003)
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
<i>Diplostomum sp.</i>		
<i>Blicca bjoerkna</i>	Uluabat Lake	Akinci (1999)
<i>Acanthobrama marmid</i>	Keban Dam Lake	Dörücü and İspir (2001)
<i>Silurus glanis</i>	Terkos Lake	Soylu (2005)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Carassius carassius</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2005)
<i>Luciobarbus esocinus</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Capoeta umbla</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Chondrostoma regium</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Squalius cephalus</i>	Keban Dam Lake	Dörücü and İspir (2005)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2006)
<i>Rutilus rutilus</i>	Sapanca Lake	Karabiber (2006)
<i>Tinca tinca</i>	Sapanca Lake	Akbeniz (2006)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Cyprinus carpio</i>	Sapanca Lake	Uzunay (2006)
<i>Chondrostoma regium</i>	Almus Dam Lake	Özgül and Turgut (2006)
<i>Alburnus alburnus</i>	Mustafakemalpaşa Stream	Aydoğdu and Selver (2006)
<i>Vimba vimba</i>	Gölbaşı Dam Lake	Aydoğdu et al. (2008)
<i>Capoeta trutta</i>	Keban Dam Lake	Dörücü et al. (2008)
<i>Cyprinus carpio</i>	Almus Dam Lake	Özgül (2008)
<i>Capoeta capoeta</i>	Almus Dam Lake	Özgül (2008)
<i>Capoeta tinca</i>	Almus Dam Lake	Özgül (2008)
<i>Squalius cephalus</i>	Örenler Dam Lake	Kurupinar (2009)
<i>Cyprinus carpio</i>	Keban Dam Lake	Karabulut (2009)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Atherina boyeri</i>	İznic Lake	Çolak (2013)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Carassius gibelio</i>	Siğirci Lake	Çolak (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)
<i>Scardinius erythrophthalmus</i>	Siğirci Lake	Çolak (2013)
<i>Rutilus rutilus</i>	Siğirci Lake	Çolak (2013)
<i>Esox lucius</i>	Siğirci Lake	Çolak (2013)
<i>Silurus glanis</i>	Siğirci Lake	Çolak (2013)
<i>Diplodiscus sp.</i>		
<i>Esox lucius</i>	Uluabat Lake	Öztürk (1995)
<i>Neascus sp.</i>		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1975)
<i>Orientocreadium sp.</i>		
<i>Clarias gariepinus</i>	Kepez I Hydro Electric Power Plant Loading Pond	Soylu and Emre (2005)
<i>Posthodiplostomum sp.</i>		
<i>Aphanius chantrei</i>	Sarikum Lagoon Lake	Öztürk (2005)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Aphanius danfordii</i>	Sarikum Lagoon Lake	Öztürk and Özer (2008a)
<i>Rhipidocotyle</i> sp.		
<i>Esox lucius</i>	Uluabat Lake	Öztürk (1995)
<i>Sanguinicola</i> sp.		
<i>Cyprinus carpio</i>	Gölbaşı Lake, Eymir Lake, Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Dam Lake, Sariyar Dam Lake, Kizilcahamam Brook, Hirfanlı Dam Lake, Çankiri-Günerdiğin Pond	Burgu et al. (1988)
<i>Tetracotyle</i> sp.		
<i>Vimba vimba</i>	Sapanca Lake	Uzunay (2006)
<i>Blicca bjoerkna</i>	Sapanca Lake	Soylu (2006)
<i>Perca fluviatilis</i>	Siğirci Lake	Soylu (2013)
<i>Sander lucioperca</i>	Siğirci Lake	Çolak (2013)
<i>Lepomis gibbosus</i>	Siğirci Lake	Çolak (2013)
<i>Creptotrema</i> sp.		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1975)
Phylum Platyhelminthes		
Class Cestoda		
<i>Bothriocephalus</i> sp.		
<i>Cyprinus carpio</i>	Uluabat Lake	Oğuz et al. (1996a)
<i>Esox lucius</i>	Mogan Lake	Sönmez (1996)
<i>Cyprinus carpio</i>	Mogan Lake	Sönmez (1996)
<i>Alburnus escherichii</i>	Mogan Lake	Sönmez (1996)
<i>Cyprinus carpio</i>	İznic Lake	Aydoğdu (1997)
<i>Caryophyllaeus</i> sp.		
<i>Cyprinus carpio</i>	Porsuk Stream	Yetim (1985)
<i>Cyprinus carpio</i>	Seyhan River	Cengizler et al. (2001)
<i>Caryophyllaeides</i> sp.		
<i>Blicca bjoerkna</i>	Uluabat Lake	Akinci (1999)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Cyclophyllidea</i> sp.		
	Çifteler-Sakaryabaşı Fish Production Station, Kurtboğazi Lake, Çankiri-Günerdiğın Pond, Nallihan and Kizilcahamam brooks	Burgu et al. (1988)
<i>Diphyllobothrium</i> sp.		
<i>Capoeta umbla</i>	Hazar Lake	Aksoy (1996)
<i>Ligula</i> sp.		
<i>Vimba vimba</i>	Porsuk River	Yetim (1985)
<i>Tinca tinca</i>	Mogan Lake	Öge and Aydın (1995)
<i>Esox lucius</i>	Mogan Lake	Sönmez (1996)
<i>Cyprinus carpio</i>	Mogan Lake	Sönmez (1996)
<i>Alburnus escherichii</i>	Mogan Lake	Sönmez (1996)
<i>Silurus glanis</i>	İzık Lake	Aydođdu et al. (1996b)
<i>Tinca tinca</i>	Kapulukaya Dam Lake	Yıldiz (2003)
<i>Proteocephalus</i> sp.		
<i>Cyprinus carpio</i>	Porsuk Stream	Yetim (1985)
<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Schistocephalus</i> sp.		
<i>Cyprinus carpio</i>	Seyhan River	Cengizler et al. (2001)
<i>Luciobarbus pectoralis</i>	Seyhan River	Şahan and Cengizler (2003)
<i>Tinca tinca</i>	Gölbaşı Lake, Eymir Lake	Burgu et al. (1988)
<i>Tinca tinca</i>	Mogan Lake, Hirfanlı Dam Lake, Kizilirmak Brook	Erkul (1997)
<i>Cyprinus carpio</i>	Mogan Lake	Erkul (1997)
<i>Alburnus escherichii</i>	Mogan Lake	Erkul (1997)
<i>Esox lucius</i>	Mogan Lake	Erkul (1997)
<i>Tinca tinca</i>	Kapulukaya Dam Lake	Yıldiz (2003)
<i>Esox lucius</i>	Siğirci Lake	Çolak (2013)
<i>Silurus glanis</i>	Siğirci Lake	Çolak (2013)
<i>Philonema</i> sp.		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1975)
<i>Raphidascaris</i> sp.		
<i>Esox lucius</i>	Çapalı Lake	Ceylan (2002)

Table 5 (continuing): Unnamed helminth species on freshwater fishes of Turkey.

<i>Rhabdochona</i> sp.		
<i>Cyprinion macrostomum</i>	Balikli Thermal	Saygi and Bardakçi (1990)
<i>Gara rufa</i>	Topardic Stream	Saygi and Bardakçi (1990)
<i>Scardinius erythrophthalmus</i>	Uluabat Lake	Oğuz and Öztürk (1993)
<i>Alburnus chalcoides</i>	Tödürge Lake	Yildirim and Ünver (2006)
<i>Spiroxys</i> sp.		
<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Neogobius melanostomus</i>	Sirakaraağaçlar Stream	Özer (2007)
Phylum Acanthocephala		
<i>Acanthocephalus</i> sp.		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1975)
<i>Neoechinorhynchus</i> sp.		
<i>Salmo trutta fario</i>	Munzur Stream	Ekingen (1976)
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Özdemir and Sarieyyüboğlu (1993)
<i>Capoeta capoeta</i>	Murat River, Aras River	Aslan (2009)
<i>Capoeta barroisi</i>	Murat River, Aras River	Aslan (2009)
<i>Barbus plebejus</i>	Murat River, Aras River	Aslan (2009)
<i>Cyprinus carpio</i>	Siğirci Lake	Çolak (2013)
<i>Esox lucius</i>	Siğirci Lake	Çolak (2013)
<i>Paulisentis</i> sp.		
<i>Aphanius chantrei</i>	Sirakaraağaçlar Stream	Özer (2006)
<i>Pomphorhynchus</i> sp.		
<i>Chondrostoma nasus</i>	Porsuk Stream	Yetim (1985)
<i>Luciobarbus escherichii</i>	Porsuk Stream	Yetim (1985)
<i>Capoeta capoeta</i>	Murat River, Aras River	Aslan (2009)
<i>Barbus plebejus</i>	Murat River, Aras River	Aslan (2009)
<i>Squalius cephalus</i>	Murat River, Aras River	Aslan (2009)
Phylum Annelida		
<i>Actinobdella</i> sp.		
<i>Luciobarbus mystaceus</i>	Keban Dam Lake	Sağlam (1992)
<i>Piscicola</i> sp.		
<i>Luciobarbus pectoralis</i>	Keban Dam Lake	Özdemir and Sarieyyüboğlu (1993)

Although parasite at species and genera level were reported from freshwater fish, only the species level will be considered here (Tab. 3). Other parasites at genera level (unnamed species) will be omitted in here.

Because they are reported from different hosts, the fish that will be shown (Tab. 5) may be a new species or the same species.

This revision presents an occurrence of 60 monogenean at species level and eight genera level (unnamed), after eleven years (Tab. 3). Other eight unnamed monogenea (genera level) reported from different host fish (*Ancyrocephalus* sp., *Paradiplozoon* sp., *Cleidodiscus* sp., *Diplozoon* sp., *Dactylogyrus* sp., *Gyrodactylus* sp., *Salsuginus* sp., *Tetraonchus* sp.) (Tab. 5). *Dactylogyrus* and *Gyrodactylus* genus are the most abundant among the monogenea. *Dactylogyrus* genus is represented with 38 species, while *Gyrodactylus* with 11 species. *Dactylogyrus* is the dominant genus among the Monogenea with regard to species diversity, host distribution and location. 33 host fish species (32 species of Cyprinidae, one species of Siluridae) were infested with *Dactylogyrus*; 13 host fish species (nine species of Cyprinidae, three species of Gobiidae, one species of Gasterosteidae) with *Gyrodactylus*; 10 different fish species with *Paradiplozoon* and *Diplozoon*. *Dactylogyrus chalcaburni*, *Ancylo-discoides siluri*, *Ancylo-discoides vistulensis* and *Tetraonchus monenteron* may be considered specific to their hosts. Dominants of some monogeneans selected the following infection sites: *Dactylogyrus* from gill filaments; *Gyrodactylus* from fins, gills, body surface.

This revision presents occurrence of 20 digenean at species level and 11 digenean at genera level (unnamed), after eleven years (Tab. 3). Also, 11 unnamed species (genera level) were reported from different host fish (*Ascocotyle* sp., *Digenea* sp., *Diplostomum* sp., *Diplodiscus* sp., *Neascus* sp., *Orientocreadium* sp., *Posthodiplostomum* sp., *Rhipidocotyle* sp., *Sanguinicola* sp., *Tetracotyle* sp., *Creptotrema* sp.). *Digenea* is next-largest group with 20 species. In terms of host distribution, *Digenea* may be ranked as follows: *Diplostomum* (seven hosts), *Tylodelphys* (13 hosts), *Clinostomum* (10 hosts), *Asymphyllodora* (four hosts), *Posthodiplostomum* (six hosts), *Bucephalus* (four hosts), *Allocreadium* (four hosts), *Aspidogaster* (five hosts). *Bucephalus polymorphus* may be considered specific to carnivorous fish. Adults digeneans were reported from intestine, pyloric caeca, stomach, body cavity, eye lens, liver, spleen, pericard, gall bladder, heart of hosts. Larvae of some digeneans such as *Centrocestus* sp., *Clinostomum* sp., *Posthodiplostomum* sp., were reported from fins, body surface, operculum, muscle, gills of hosts.

The checklist contains 20 species and eight unnamed species (genera level) of Cestoda. In terms of host distribution, the 10 genera of Cestoda may be ranked as follows: *Ligula* (28 hosts), *Bothriocephalus* (17 hosts), *Caryophyllaeus* (11 hosts), *Proteocephalus* (four hosts) *Khawia* (six hosts). *Ligula pavlovskii*, *Triaenophorus crassus*, *Silurotaenia siluri*, *Khawia armeniaca* and *Proteocephalus osculatus* may be considered specific to their hosts. *Ligula intestinalis* is the dominant cestode species in terms of host range and location. Cestodes were reported from intestine, body cavity, surfaces of visceral organs, pharynx, external mesenteries of internal organ, pyloric caeca, duodenum, urogenital ducts, liver, gonad of hosts.

The checklist contains 11 species and nine unnamed species (genera level) of Nematoda. In terms of host distribution, the genera of Nematoda may be ranked as follows: *Rhabdochona* (eight hosts), *Eustrongylides* (nine hosts), *Philometra* (three hosts). Adults nematodes were reported from body cavity, pyloric caeca, liver, intestine, mesentery, body surface, gills, coelom, stomach, swimbladder, surfaces of visceral organs, muscle, ovarium, testis of hosts. *Nematoda* sp. larvae were reported from body surface, gills.

The checklist contains seven species and four unnamed species (genera level) of acanthocephala. The genera of Acanthocephala are distributed as follows: *Neoechinorhynchus* (15 hosts), *Pomphorhynchus* (14 hosts), *Acanthocephalus* (two hosts). Acanthocephalans were only reported on intestines of hosts.

The checklist contains five species and two unnamed species (genera level) of hirudinids. Hirudinids were reported on body surface, fins, gills, mouth.

After the checklist of helminths of freshwater fish from Turkey published by Öktener (2003), parasites species number increased significantly to nowadays. Especially, platyhelminth species number reached from 57 to 100 (Tab. 6).

Table 6: Change of number of named and unnamed helminth species reported from fish species occurring after Öktener (2003).

	Öktener (2003)		Present Study	
	Named species	Unnamed species	Named species	Unnamed species
Monogenea	28	5	60	8
Digenea	16	5	20	11
Cestoda	13	6	20	8
Nematoda	8	5	11	9
Acanthocephala	5	3	7	4
Hirudinea	3	2	5	2
	73	26	123	42
Total	99		165	

CONCLUSIONS

This new updated checklist is done to update the helminths of freshwater fish from Turkey.

Finally, it was also planned to show and update the parasite richness of fish of Turkey according to actual literature.

The present publication describes the published literature and thus provides a summary of the currently known freshwater fish parasites in Turkey. It was felt that a critical checklist of the freshwater fish parasites known from Turkey to date would help to solve contradictions among researchers, and benefit veterinarians, parasitologists and zoologists, ecologists.

It is hoped that this compilation will stimulate further parasitological investigations of fish in Turkey.

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