



A Critical Checklist of Turkish Freshwater Fishes (2026)

Cüneyt Kaya^{1,*}, Fitnat Güler Ekmekçi², Davut Turan¹, Müfit Özuluğ³, Fahrettin Küçük⁴, Hasan Musa Sarı⁵, Ali İlhan⁵, Mahir Kanyılmaz⁶, Mustafa Altuğ Atalay⁷, Esra Bayçelebi¹, Vedat Yeğen⁸, Fatih Gündüz⁹, Gülşah Saç³, Şerife Gülsün Kırankaya¹⁰, Özcan Gaygusuz¹¹, Sadi Aksu¹², Şükran Yalçın Özdilek¹³, Erhan Ünlü¹⁴, Salim Serkan Güçlü⁴, Derya Özcan⁶, Turgay Türkyılmaz⁶, Hüseyin Akbaş⁶, Nazmi Polat¹⁵, İskender Gülle¹⁶, Baran Yoğurtçuoğlu^{2,*}

¹Recep Tayyip Erdogan University, Faculty of Fisheries, 53100, Rize, Türkiye

²Hacettepe University, Faculty of Science, Biology Department, Beytepe Campus, 06800 Ankara, Türkiye.

³Istanbul University, Faculty of Science, Department of Biology, Vezneciler-34134 Istanbul/Türkiye.

⁴Eğirdir Fisheries Faculty, Isparta University of Applied Sciences, Isparta, Türkiye.

⁵Ege University, Faculty of Fisheries, 35100, Bornova, Izmir, Türkiye.

⁶Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Fisheries and Aquaculture, Lodumlu, Ankara, Türkiye.

⁷Republic of Türkiye Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies, Lodumlu, Ankara, Türkiye.

⁸Fisheries Research Institute, 32500, Eğirdir, Isparta, Türkiye.

⁹Fisheries Research Institute, Elazığ, Türkiye.

¹⁰Department of Biology, Faculty of Art and Sciences, Düzce University, Düzce, Türkiye.

¹¹Department of Marine and Freshwater Resources Management, Faculty of Aquatic Sciences, Istanbul University, Istanbul, Türkiye.

¹²Vocational School of Health Services, Eskişehir Osmangazi University, Eskişehir, Türkiye.

¹³Çanakkale Onsekiz Mart University, Faculty of Science, Department of Biology, 17020 Çanakkale, Türkiye.

¹⁴Department of Biology, Section of Hydrobiology, Faculty of Science, Dicle University, Retired Faculty Member, Diyarbakır, Türkiye.

¹⁵Faculty of Art and Sciences, Department of Biology, Ondokuz Mayıs University, Samsun, Türkiye.

¹⁶Burdur Mehmet Akif Ersoy University, Faculty of Art and Sciences, Department of Biology, Burdur, Türkiye.

^{*}Equally contributed authors

How to Cite

Kaya, C., Ekmekçi, F.G., Turan, D., Özuluğ, M., Küçük, F., Sarı, H.M., İlhan, A., Kanyılmaz, M., Atalay, M.A., Bayçelebi, E., Yeğen, V., Gündüz, F., Saç, G., Kırankaya, Ş.G., Gaygusuz, Ö., Aksu, S., Özdilek, Ş.Y., Ünlü, E., Güçlü, S.S. Özcan, D., Türkyılmaz, T., Akbaş, H., Polat, N., Gülle, İ., Yoğurtçuoğlu, B. (2026). A Critical Checklist of Turkish Freshwater Fishes (2026). *Turkish Journal of Fisheries and Aquatic Sciences*, 26(5), TRJFAS29729. <https://doi.org/10.4194/TRJFAS29729>

Article History

Received 15 August 2025

Accepted 24 October 2025

First Online 03 December 2025

Corresponding Author

E-mail: cuneyt.kaya@erdogan.edu.tr

Keywords

Fish taxonomy
Freshwater fish
Ichthyofauna
National checklist
Türkiye

Abstract

Türkiye, a key biogeographic bridge between Europe and Asia, has experienced major advances in taxonomic knowledge of its freshwater fishes, but existing faunal lists lag behind recent revisions. We present a revised checklist that compiles and standardises records using the latest IUCN assessments, published descriptions and revisions (to 2026), museum collections and expert-verified data. Unestablished introductions and strictly marine visitors were excluded. We recognise 390 freshwater fish species in 37 families, including 367 native species and 23 established non-native taxa, of which 202 natives (55%) are endemic to Türkiye. Species richness is concentrated in Leuciscidae (113 species), Nemacheilidae (59) and Cyprinidae (53), which together comprise 61.5% of the native fauna. At the catchment scale, total richness ranges from 11 species in the Van Basin to 65 in the Sakarya drainage, endemic richness was highest in Antalya (28 species) and non-native richness in the Sakarya drainage (10 species). The checklist provides updated nomenclature, distributions within Türkiye and standardised common names, establishing an agreed taxonomic baseline for biodiversity assessment, fisheries and conservation management.

Introduction

Türkiye harbours a highly rich freshwater fish fauna as a result of its complex topography, diverse climatic zones, and wide range of endorheic basins and independent river systems (Kaya, 2019; Giannetto & İnnal, 2021). The country lies within three major biodiversity hotspots—the Caucasus, Iran–Anatolia, and the Mediterranean Basin—which contributes to its ecological significance and high faunal and floral richness (Myers et al., 2000). As a result, Türkiye is characterised by high levels of endemism and faunal diversity, particularly in freshwater environments, driven by the variety of hydrological systems, numerous isolated basins and heterogeneous climatic and geological conditions (Giannetto & İnnal, 2021). This biogeographical diversity has attracted ichthyologists for decades, who have been documenting and cataloguing its ichthyofauna (Kaya et al., 2021, 2025).

Until the early 2000s, the freshwater fish fauna of Türkiye remained relatively understudied (Geldiay & Balık, 1999; Kuru et al., 2004). Since then, an increased volume of taxonomic research has clarified the status and distribution of many groups, particularly following the publication of the first large-scale DNA barcode library for Mediterranean freshwater fish by Geiger et al. (2014). This study revealed numerous candidate and cryptic species in the Levant, leading to more comprehensive integrative revisions (Yoğurtcuoğlu et al., 2020, 2022; Bektaş et al., 2020; Freyhof et al., 2018, 2019, 2022). Over this period, at least 136 species have been newly described (Kaya et al., 2025), several others have been recorded for the first time in Türkiye (e.g. Ünlü et al., 2011; Bayçelebi et al., 2015; Kaya, 2020a; Kaya et al., 2020a).

Kuru (2004) provided the first comprehensive synthesis of Türkiye's freshwater fishes, reporting 236 taxa from 26 families. However, subsequent checklists have revised these numbers: Fricke et al. (2007) listed 261 taxa while Ekmekçi et al. (2013) reported 310. Kuru et al. (2014) then raised the total to 371, representing a 57% increase on the number reported by Kuru (2004). Çiçek et al. (2015, 2018) then increased the total to 386 and 409 species respectively, primarily due to newly described taxa, range extensions, and taxonomic changes. Later compilations suggested totals of 384 (Çiçek et al., 2020) and 427 species (Çiçek et al., 2023), although these lists included several species not currently confirmed from Türkiye (e.g. *Oxynoemacheilus bureschi*, *O. chomanicus*, *O. insignis*). At the same time, new species continue to be described, whereas others have been rendered invalid through synonymization. This rapid turnover in names and species counts has created uncertainty about the true composition of the fauna, making it difficult to compare studies, track trends, or set conservation priorities.

Given this ongoing taxonomic change and the lack of a critically evaluated, standardized fauna, there is a clear need for a reliable national checklist that reconciles competing treatments and applies explicit inclusion rules. Here we present a critical checklist of the freshwater fishes of Türkiye for 2026. We integrate recent taxonomic

revisions, museum and literature records, and expert opinion to produce an agreed list of native and established non-native taxa, with updated nomenclature, distribution, and common names. This checklist is intended to provide an agreed taxonomic reference for future research, monitoring, and management of Türkiye's freshwater fish diversity.

Material and Method

Species Compilation and Listing Procedure

We compiled an updated checklist of the freshwater fishes of Türkiye by integrating recent taxonomic revisions with a critical re-evaluation of earlier national and regional checklists. As a baseline, we used the species list and taxonomic concepts adopted during the IUCN Red List assessments of West Asian freshwater fishes, including all taxa occurring in the Anatolian part of Türkiye. This baseline was subsequently updated by incorporating published taxonomic changes, new species descriptions, and new records appearing after the assessment period and up to the end of 2025. For the Thracian part of Türkiye, we additionally screened recent ichthyological surveys and taxonomic papers focusing on the transboundary Meriç drainage ("Maritsa" is the Bulgarian and "Evros" is the Greek name) and the coastal streams along the southwest of the Marmara and Black Sea to ensure coverage of all currently recognised freshwater taxa.

All candidate records were critically examined in relation to their original sources, including species descriptions, taxonomic revisions, and field surveys. The initial list was refined by regional experts familiar with the ichthyofauna of Türkiye and was revised iteratively through internal and external peer review. Synonymies, resurrected taxa, and recently described species were treated in line with Freyhof et al. (2025a) and other contemporary systematic works.

The species selection was based on the ecological and biogeographic framework outlined by Freyhof et al. (2025a). The following species were included: (i) primary-division freshwater families, whose members are physiologically intolerant of seawater and complete their life cycle in freshwater (e.g. Cypriniformes);

(ii) secondary-division families of marine origin, which now mainly or entirely occur in freshwater, including euryhaline taxa capable of exploiting brackish habitats;

(iii) diadromous species (anadromous and catadromous), which naturally use freshwater at some point in their life cycle. In addition, we retained sporadic euryhaline species from predominantly marine families when they are known to occur regularly beyond estuaries in inland freshwater within Türkiye.

Non-native species were included only when their successful establishment in freshwaters was supported by evidence (e.g., repeated records over multiple years and/or confirmed reproduction). Introduced taxa represented solely by occasional, non-reproducing occurrences, stocking experiments without persistence, or unconfirmed

reports were not considered part of the established freshwater fish fauna and were therefore excluded.

We excluded strictly marine species and all records confined to coastal or estuarine waters. Marine fish recorded only occasionally in inland waters whose presence is considered accidental, vagrant, or otherwise unpredictable were also omitted from the checklist. This filtering process ensured that the final list represents the established freshwater and freshwater-associated ichthyofauna of Türkiye, rather than transient marine visitors.

The families were arranged in accordance with the taxonomic hierarchy established by Van der Laan et al. (2017). Higher-level (supra-familial) classification was not standardised or discussed, meaning that orders or higher ranks are not included in the checklist. Within each family, species are listed in strict alphabetical order. Common names were primarily extracted from FishBase if they accurately reflected the species' distribution range and/or diagnostic morphological characteristics. Where existing common names were misleading, inconsistent, or absent, we proposed new names to better reflect the identity and distinctiveness of the species.

Species Richness and Endemism Metrics

In defining the taxonomic composition of the Turkish freshwater fish fauna, we quantified species richness and endemism at national and family levels. To compile for the full checklist, we first calculated the total number of freshwater fish species recorded in Türkiye (including all native and successfully established non-native taxa, as defined above), as well as the total number of endemic species. Endemism was strictly defined at the political country scale: a species was considered endemic to Türkiye if its entire known natural distribution was within Turkish national borders. Species whose native ranges extend beyond Türkiye into neighbouring countries were treated as non-endemic, even when the majority of their distribution falls within Turkish territory. For each family represented in the checklist, we then computed (i) the total number of species occurring in Türkiye and (ii) the number of endemic species belonging to that family, according to the above definition. The family-level endemism rate was expressed as a percentage and calculated as follows: the number of endemic species in the family/total number of species in the family in Türkiye x 100. Similarly, catchment-level species richness was also calculated by a partitioning among endemic, native, non-native and cross-basin introduced species per catchment.

Results

The freshwater fishes of Türkiye are reviewed, and 390 species from 37 families are recognized. Of these, 367 are native and 23 are non-native established species. Three of the non-native taxa (*Oncorhynchus mykiss*, *Hypophthalmichthys molitrix*, and *H. nobilis*) lack documented natural reproduction in the wild but are

retained in the checklist because they are repeatedly recorded from multiple localities and years, consistent with our inclusion criteria. At least five additional species (*Sterletus baerii*, *Rubricatichromis letourneuxi*, *Pangasius sanitwongsei*, *Pygocentrus nattereri*, and *Ctenopharyngodon idella*) have been recorded only sporadically from Turkish freshwaters with no evidence of establishment and were therefore excluded. Among the native fauna, 202 species (55%) are endemic to Türkiye.

Family-level patterns of richness and endemism are summarized in Figure 1. Leuciscidae (113 species), Nemacheilidae (59), and Cyprinidae (53) are by far the most speciose families and together account for 61.5% of all native species (30%, 16%, and 14%, respectively). Other families with noteworthy numbers of species are Cobitidae (27 species), Salmonidae (24 species), Aphaniidae (21 species), and Gobionidae (15 species).

The highest family-level endemism rate is found in Aphaniidae with 90.5% of its species restricted to Türkiye, followed by Salmonidae (87%), Cobitidae (74.1%) and Nemacheilidae (72.9%) (Figure 1). Of the 370 native species, 364 (98.4%) have a recent IUCN Red List category. Six species are listed as Extinct (EX): *Anatolichthys splendens*, *Cobitis kellei*, *Alburnus adanensis*, *Alburnus akili*, *Pseudophoxinus handlirschi*, and *Acanthobrama centisquama*; all but *A. centisquama* are endemic, and the historical range of *A. centisquama* was largely in Türkiye. Nearly 38% of all assessed native species are threatened (CR+EN+VU). Among assessed endemic species, ca. 58% are threatened.

The catchment-level species richness ranged from 11 species in the Van Basin to 65 species in the Sakarya drainage (Figure 2). The most species-rich systems were the Sakarya (65 spp. [species]), Marmara (64 spp.), Euphrates (63 spp.), Kızılırmak (57 spp.) and Antalya and Western Black Sea (both 53 spp.), followed by the Tigris (51 spp.). Endemic richness was highest in Antalya (28 endemic spp.), Konya and Ceyhan (25 spp. each). Cross-basin translocations were particularly numerous in Antalya, the Büyük Menderes and the Ceyhan drainages (eight to ten species), while non-native richness peaked in the Sakarya drainage (ten species) and was also high in the Euphrates and the Kızılırmak river drainages (four to eight species). This indicates basins where human-mediated introductions have most significantly impacted the local fauna.

CHECKLIST

FAMILY PETROMYZONTIDAE BONAPARTE, 1831

Lampetra lanceolata (Kux & Steiner, 1972) - [EN]

Common names. Turkish brook lamprey / Dere dokuz gözlüsü

Distribution. Endemic. İyidere, Baltacı, and Kara streams in northeast Anatolia, Black Sea drainages, also in the upper Büyük Melen River, and streams draining into Lake Sapanca. It has not been recorded in Sapanca Lake Basin, despite regular sampling, possibly extinct there.

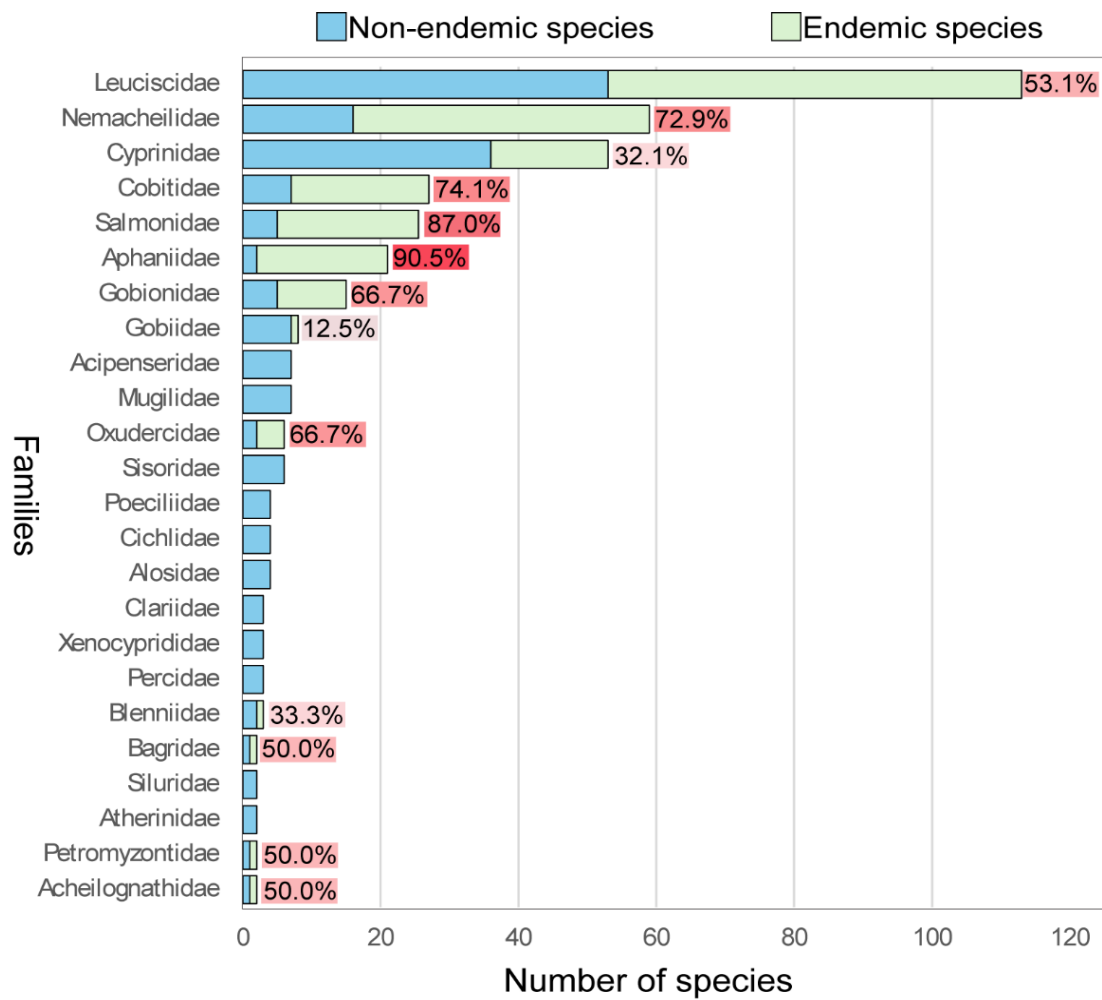


Figure 1. Family-level patterns of richness and endemism in Turkish freshwaters.

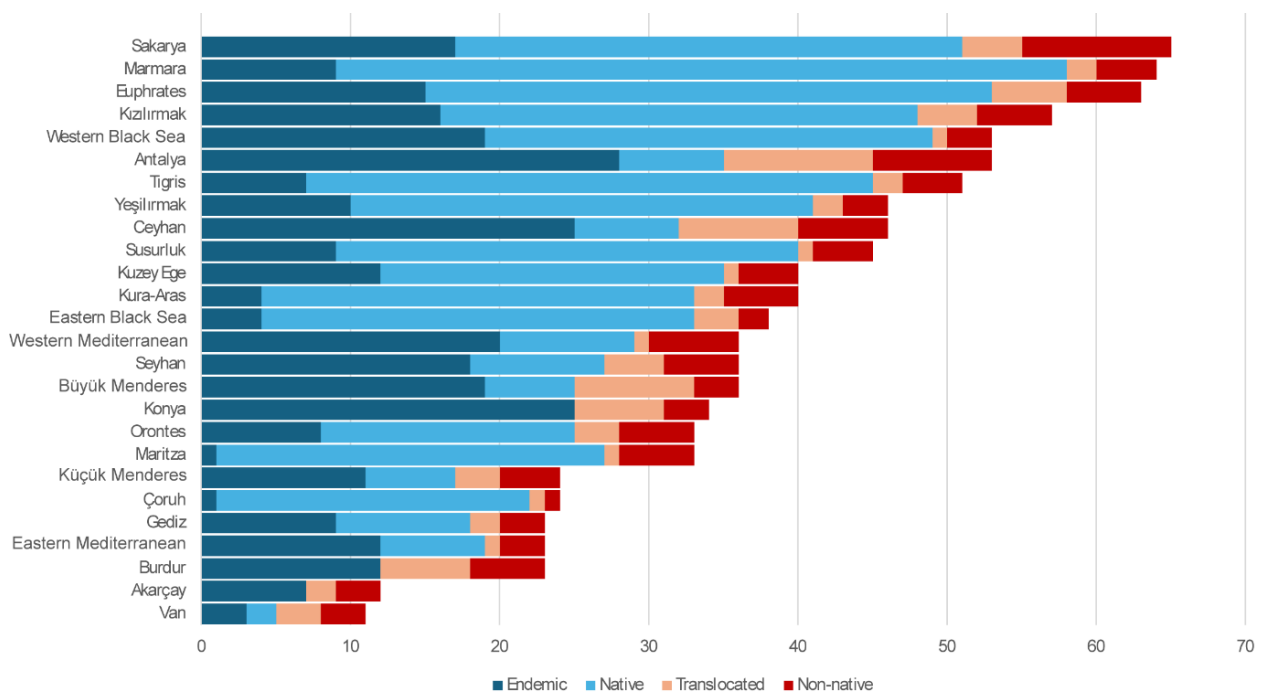


Figure 2. Catchment-level freshwater fish species richness partitioned into endemic, native, translocated and non-native species.

***Petromyzon marinus* Linnaeus, 1758 - [LC]**

Common names. Sea lamprey / Deniz dokuz gözlüsü

Distribution. Occurs erratically in Türkiye's Mediterranean rivers. Also in marine and brackish water.

FAMILY ACIPENSERIDAE BONAPARTE, 1831***Sterletus gueldenstaedtii* (Brandt & Ratzeburg, 1833) - [CR]**

Common names. Russian Sturgeon / Karaca mersini

Distribution. Black Sea Basin. Also in marine and brackish water.

***Sterletus huso* (Linnaeus, 1758) - [CR]**

Common names. Beluga / Mersin morinası

Distribution. Turkish Aegean, Marmara, and Black Sea waters harbor. Also in marine and brackish water.

***Sterletus nudiiventris* (Lovetsky, 1828) - [CR]**

Common names. Ship sturgeon / Şip

Distribution. Black Sea Basin. Also in marine and brackish water.

Remarks. There is not any record about the occurrence of the species in the last decades. Probably extirpated.

***Sterletus persicus* (Borodin, 1897) - [CR]**

Common names. Persian sturgeon / Hazar Mersini

Distribution. Southeastern Black Sea Basin. Also in marine and brackish water.

Remarks. *Sterletus colchicus* has been proposed as a valid species for the Black Sea population, but molecular and other data do not support this hypothesis. Freyhof et al. (2025a) treat *S. colchicus* as a synonym of *S. persicus* and highlights the lack of evidence supporting the distinction between *S. persicus* and *S. gueldenstaedtii*. While these two species are consistently treated as morphologically distinct, especially in the Caspian Basin, further research is needed to resolve this taxonomic issue (Freyhof et al., 2025a).

***Sterletus stellatus* (Pallas, 1771) - [CR]**

Common names. Stellate sturgeon / Uzunburun mersin

Distribution. Black Sea Basin. Also in marine and brackish water.

***Acipenser sturio* Linnaeus, 1758 - [CR]**

Common names. Atlantic sturgeon / Kolan

Distribution. Black Sea, Marmara, and Aegean Sea basins. Also in marine and brackish water.

Remarks. There has been no record of the species' occurrence for years. Seems extirpated.

FAMILY ANGUILLIDAE RAFINESQUE, 1810***Anguilla anguilla* (Linnaeus, 1758) - [CR]**

Common names. European eel / Avrupa yılan balığı

Distribution. All coasts of Turkish seas, as well as lakes connected to coastal water. Also in marine and brackish water.

EHIRAVIDAE DERANIYAGALA, 1929***Clupeonella cultriventris* (Nordmann, 1840) - [LC]**

Common names. Common tyulka / Tülka

Distribution. Marmara and Black Sea basins. Also, in lakes Sapanca and Apolyont. Also in marine and brackish water.

Remarks. *Clupeonella muhlisi* from Lake Apolyont in Western Anatolia and Caspian *C. caspia* were classified as distinct species. No morphological or molecular characters were found to differentiate these populations from *C. cultriventris* (Freyhof et al., 2025a). Consequently, they are regarded as synonyms.

FAMILY ALOSIDAE SVETOVIDOV, 1952***Alosa agone* (Scopoli, 1786) - [NE]**

Common names. Twaite shad / Dişli tirsı

Distribution. All coasts of Turkish seas. Also in marine and brackish water.

***Alosa immaculata* Bennett, 1835 - [LC]**

Common names. Large Black Sea shad / Karadeniz tirsisi

Distribution. Black Sea watersheds. The presence in the Marmara Sea Basin is questionable. Also in marine and brackish water.

***Alosa maeotica* (Grimm, 1901) - [LC]**

Common names. Azov shad / Azak tirsisi

Distribution. Black Sea watersheds. Freshwater, brackish and marine species.

***Alosa tanaica* (Grimm, 1901) - [LC]**

Common names. Little Black Sea shad / Küçük Karadeniz tirsisi

Distribution. Black and Marmara Sea watersheds. Also in marine and brackish water.

FAMILY CYPRINIDAE RAFINESQUE, 1815***Arabibarbus grypus* (Heckel, 1843) - [VU]**

Common names. Shabout / Şabut or Şabot

Distribution. Tigris and Euphrates River drainages. Extirpated from the Qweiq drainage.

***Barbus anatolicus* Turan, Kaya, Geiger & Freyhof, 2018 - [LC]**

Common names. Anatolian barbel / Anadolu bıyıklı balığı

Distribution. Endemic. Kızılırmak and Yeşilirmak River drainages.

***Barbus cyclolepis* Heckel, 1837 - [LC]**

Common names. Maritsa barbel / Meriç bıyıklı balığı

Distribution. Meriç and Marmara drainages in the Thrace Region, also in Durusu drainage.

***Barbus cyri* De Filippi, 1865 - [LC]**

Common names. Kura barbel / Kura bıyıklı balığı

Distribution. Widespread in the Kura and Aras River systems in northeastern Anatolia, also recorded in Turkish Urmia drainages (Kaya, 2020a).

***Barbus escherichii* Steindachner, 1897 - [LC]**

Common names. Sakarya barbel / Sakarya bıyıklı balığı

Distribution. Endemic. Sakarya River drainage in the northern Anatolian Black Sea watersheds.

***Barbus ida* Güçlü, Kalaycı, Özuluğ, Küçük & Turan, 2021 - [LC]**

Common names. İda barbel / Kazdağı bıyıklı balığı

Distribution. Endemic. Gönen and Biga streams, southern Marmara Sea drainages.

***Barbus lacerta* Heckel, 1843 - [LC]**

Common names. Lizard barbel / Mezopotamya bıyıklı balığı

Distribution. Tigris and Euphrates River drainages, as well as in the Lake Van basin. Extirpated from the Qweiq drainage.

Taxonomic notes. *Barbus ercisanus*, was known from the Lake Van Basin, and *B. kosswigi*, described from the upper Great Zap are considered synonyms of this species (Khaefi et al., 2017).

***Barbus niluferensis* Turan, Kottelat & Ekmekçi, 2008 - [NT]**

Common names. Simav barbel / Simav bıyıklı balığı

Distribution. Endemic. Susurluk River drainage in the northwestern Anatolia Marmara Sea basin.

***Barbus pergamonensis* Karaman, 1971 - [LC]**

Common names. Pergamon barbel / Bergama bıyıklı balığı

Distribution. Karamenderes River, south to Madra, Bakırçay, and Gediz rivers, Aegean Basin.

***Barbus rionicus* Kamensky, 1899 - [LC]**

Common names. Colchic barbel / Çoruh bıyıklı balığı

Distribution. Çoruh River drainage the southwest Black Sea Basin.

***Barbus tauricus* Kessler, 1877 - [LC]**

Common names. Crimean barbel / Karadeniz bıyıklı balığı

Distribution. All rivers in Anatolia flow into the Black Sea. Also, in southern tributaries of the Marmara Sea from Lake İznik west to Karamenderes. Also in brackish water.

Taxonomic notes. *Barbus oligolepis* is a synonym (Freyhof et al., 2025a)

***Barbus xanthos* Güçlü, Kalaycı, Küçük & Turan, 2020 - [LC]**

Common names. Eşen barbel / Eşen bıyıklı balığı

Distribution. Endemic. The species recently was described from the Eşen, Dalaman, Tersakan, and Büyük Menderes rivers in southwestern Anatolia (Güçlü et al., 2020).

***Capoeta antalyensis* (Battalgil, 1944) - [VU]**

Common names. Pamphylian scraper / Antalya sirazı

Distribution. Endemic. The species found from Köprüçay and Aksu rivers and streams Boğa and Gündoğdu, all around Antalya, Mediterranean Sea watersheds in southwestern Anatolia (Kaya et al., 2019).

***Capoeta aydinensis* Turan, Küçük, Kaya, Güçlü & Bektaş, 2017 - [LC]**

Common names. Carian scraper / Karya sirazı

Distribution. Endemic. Büyük Menderes River and the streams Tersakan, Dalaman and Namnam in southwestern Türkiye (Turan et al., 2017).

***Capoeta banarescui* Turan, Kottelat, Ekmekçi & İmamoğlu, 2006 - [LC]**

Common names. Cholchic scraper / Çoruh sirazı

Distribution. The species is known from east of Yeşilirmak to the Çoruh River Black Sea watersheds in northern Anatolia (Kaya, 2019).

***Capoeta barroisi* Lortet, 1894 - [EN]**

Common names. Orontes scraper / Benekli Asi sirazı

Distribution. Orontes River drainages, Mediterranean Sea watersheds in southern Anatolia.

***Capoeta bergamae* Karaman, 1969 - [NT]**

Common names. Aegean scraper / Ege sirazı

Distribution. Endemic. Gediz River drainage and the Biga Peninsula.

***Capoeta caelestis* Schöter, Özuluğ & Freyhof, 2009 - [LC]**

Common names. Taurus scraper / Toros sirazı

Distribution. Endemic. *Capoeta caelestis* inhabits coastal streams and rivers between Manavgat River in the west and Göksu River (Silifke-Mersin) in the east (Kaya et al., 2019, Küçük et al., 2020).

***Capoeta capoeta* (Güldenstädt, 1773) - [LC]**

Common names. Caucasian khramulya / Kafkas sirazı

Distribution. Kura and Aras River drainages in northeastern Türkiye.

***Capoeta damascina* (Valenciennes, 1842) - [LC]**

Common names. Levantine scraper / Şam sirazı

Distribution. Widespread in the Orontes, Seyhan, Ceyhan, and some parts of the Euphrates River drainages in southern Anatolia.

Taxonomic notes. *Capoeta umbla* is a synonym (Kaya et al., 2019, Freyhof et al., 2025a).

***Capoeta erhani* Turan, Kottelat & Ekmekçi, 2008 - [LC]**

Common names. Cilician scraper / Benekli Akdeniz sirazı

Distribution. Endemic. Ceyhan and Seyhan River drainages in southern Anatolia. **Taxonomic notes.** *Capoeta turani*, described from Seyhan, is a synonym (Turan et al., 2022a).

***Capoeta kaput* Levin, Prokofiev & Roubenyan, 2019-[LC]**

Common names. Blue scraper / Mavi siraz

Distribution. Aras River drainage in northeastern Türkiye.

***Capoeta oguzelii* Elp, Osmanoğlu, Kadak & Turan, 2018 - [CR]**

Common names. Ezine scraper / Ezine sirazı

Distribution. Endemic. Known only from the upper Ezine at Devrekani, a coastal stream in the southern Black Sea.

***Capoeta pestai* (Pietschmann, 1933) - [VU]**

Common names. Long-snout scraper / Eğirdir sirazı

Distribution. Endemic. Eğirdir and Beyşehir Lake drainages, and Melendiz Stream in Central Anatolia.

Taxonomic notes. *Capoeta mauricii* described from Lake Bayşehir is a synonym (Çiçek et al., 2021).

***Capoeta sieboldii* (Steindachner, 1864) - [LC]**

Common names. Nipple-lip scraper / Saçaklı siraz

Distribution. Çoruh, Kızılırmak, Yeşilirmak, and Sakarya River drainages. Also in some small coastal Black Sea drainages in northwestern Anatolia.

***Capoeta tinca* (Heckel, 1843) - [LC]**

Common names. Fourbarbel scraper / Marmara sirazi

Distribution. Endemic. Lakes İznik, Eber, and Akşehir basins and Susurluk (Marmara basin) east to Kızılırmak drainage.

Remarks. *Capoeta baliki* was described from Sakarya and Kızılırmak is a synonym (Çiçek et al., 2021).

***Capoeta trutta* (Heckel, 1843) - [LC]**

Common names. Spotted scraper / Benekli siraz

Distribution. Qweiq, Tigris, and Euphrates River drainages in southeastern Anatolia.

***Carasobarbus chantrei* (Sauvage, 1882) - [LC]**

Common names. Orontes himri / Asi himirisi

Distribution. Orontes River drainage in southeastern Anatolia.

***Carasobarbus kosswigi* (Ladiges, 1960) - [LC]**

Common names. Kiss-lip himri / Dudaklı himri

Distribution. Tigris and Euphrates River drainages in southeastern Anatolia.

***Carasobarbus luteus* (Heckel, 1843) - [LC]**

Common names. Mesopotamian himri / Sarı bizir

Distribution. Tigris, Euphrates, and Qweiq River drainages in southeastern Anatolia.

***Carassius auratus* (Linnaeus, 1758) - [Non-native]**

Common names. Goldfish / Kırmızı havuz balığı

Distribution. It has been introduced into many lakes, ponds, and reservoirs.

***Carassius carassius* (Linnaeus, 1758) - [Translocated]**

Common names. Crucian carp / Havuz balığı

Distribution. Locally in Lake Akgöl (lower Sakarya), Lake Durusu (Black Sea drainage), lower Susurluk drainages where it might be native, and Lake Çıldır (upper Aras drainage) where it may be non-native.

***Carassius gibelio* (Bloch, 1782) - [Non-native]**

Common names. Prussian carp / Gümüşü havuz balığı

Distribution. It is an introduced alien species known from Aegean, Mediterranean, and Black Sea watersheds, Tigris, Euphrates, Kura drainages, and some other freshwater and transitional waters. Also in brackish water.

***Carassius langsdorfii* Temminck & Schlegel, 1846 - [Non-native]**

Common names. Ginbuna / Ginbuna

Distribution. The true distribution of this species is obscured by widespread hybridisation within the *C. auratus* complex, which includes *C. auratus* and *C. gibelio*, as well as common misidentifications.

***Cyprinion macrostomum* Heckel, 1843 - [LC]**

Common names. Largemouth lotak / Beni balığı

Distribution. Tigris, Euphrates and Qweiq River basins.

Remarks. *Cyprinion macrostomum* is frequently reported to occur also in the Orontes River (e.g Fricke et al., 2007). Based on our many field work experiments in the area, we have no doubt this species does not occur in the Orontes Basin.

***Cyprinion kais* Heckel, 1843 - [LC]**

Common names. Smallmouth lotak / Küçükağızlı beni balığı

Distribution. Tigris, Euphrates, and Qweiq River basins.

***Cyprinus carpio* Linnaeus, 1758 - [LC, Translocated]**

Common names. Common carp / Sazan

Distribution. Originally from Black Sea watersheds but introduced elsewhere.

Remarks. Some Caspian and Black Sea populations might be native as they have slenderer and yellowish body form. Widely introduced in Türkiye.

***Garra caudomaculata* (Battalgil, 1942) - [LC]**

Common names. Orontes golden barbel / Altın saz balığı

Distribution. Orontes River drainages in southern Anatolia.

***Garra culiciphaga* (Pellegrin, 1927) - [LC]**

Common names. Red stripe barb / Kızıl saz balığı

Distribution. Endemic. Tarsus, Seyhan, and Ceyhan River drainages in southern Anatolia.

***Garra kemali* (Hanko, 1925) - [VU]**

Common names. Tuz golden barb / Ereğli saz balığı

Distribution. Endemic. Ereğli marshes and Lake Meyil in Lake Tuz Basin (Gaygusuz et al., 2009). Lake Beyşehir Basin and Hirfanlı Reservoir (Kızılırmak River) (Yoğurtcuoğlu et al., 2018).

***Garra klatti* (Kosswig, 1950) - [VU]**

Common names. Anatolian golden barb / Anadolu saz balığı

Distribution. Endemic. Lakes Işıkli, Eğirdir, Gölçük, and upper Köprüçay River basins (Küçük & İkiz, 2004).

Remarks. *Hemigrammocapoeta menderesensis* is a synonym.

***Garra orontesi* Bayçelebi, Kaya, Turan & Freyhof, 2021 - [LC]**

Common names. Orontes garra / Asi yağlı balığı

Distribution. Orontes River, southern Anatolia.

***Garra rezai* Mousavi-Sabet, Eagderi, Saemi-Komsari, Kaya & Freyhof, 2022 - [LC]**

Common names. Tigris garra / Dicle yağlı balığı

Distribution. Stream Kaynarca (Murat drainage) in Euphrates, and Yanarsu, Botan, Menfez, Hezil, and Batman drainages, as well as from Aktoprak in the upper Tigris River.

***Garra rufa* (Heckel, 1843) - [LC]**

Common names. Doctor fish; Red garra / Doktor balığı

Distribution. Tigris and Euphrates River drainages, extirpated from the Qweiq drainage.

***Garra turcica* Karaman, 1971 - [LC] [Translocated]**

Common names. Cilician garra / Kilikya yağlı balığı

Distribution. Endemic. Seyhan, Ceyhan, and Göksu River drainages, and small rivers south to Arsuz. Translocated to Ilica Stream and Karpuz Creek (Antalya) (Güçlü et al., 2025a; Güçlü et al., 2025b).

***Garra variabilis* (Heckel, 1843) - [LC]**

Common names. Small-mouth garra / Yapışkan balık

Distribution. Tigris, Euphrates, and Qweiq River drainages.

***Luciobarbus capito* (Güldenstaedt, 1773) - [LC]**

Common names. Bulatmai barbel / Bulatmai bıyıklı balığı

Distribution. Aras River drainage, northeast Türkiye. Also in brackish water.

***Luciobarbus esocinus* Heckel, 1843 - [VU]**

Common names. Pike barbel / Firat turnası; Cero

Distribution. Euphrates and Tigris River drainages. Extirpated from the Qweiq drainage.

***Luciobarbus graecus* (Steindachner, 1895) - [LC]**

Common names. Greek barbel / Yunan bıyıklı balığı

Distribution. Bakacak on the Biga Peninsula, west of Çanakkale and south of the Büyük Menderes River.

***Luciobarbus mursa* (Güldenstaedt, 1773) - [VU]**

Common names. Mursa / Murzu

Distribution. Kura and Aras River drainages, northeast Anatolia.

***Luciobarbus pectoralis* (Heckel, 1843) - [LC]**

Common names. Laventina barbel / Kilikya bıyıklı balığı

Distribution. Göksu east to Orontes River drainage.

***Luciobarbus subquincunciatus* (Günther, 1868) - [CR]**

Common names. Leopard barbel / Leopar sazanı; Komando balığı

Distribution. Tigris and Euphrates River drainages.

***Luciobarbus schejch* Heckel, 1843 - [LC]**

Common names. Yellowfin barbel / Maya balığı

Distribution. Tigris and Euphrates River drainages. Extirpated from the Qweiq drainage.

Taxonomic notes. *Luciobarbus kersin*, *L. xanthopterus*, and *L. barbatus* synonyms of this species (Freyhof et al., 2025b).

FAMILY ACHEILOGNATHIDAE BLEEKER, 1863

***Rhodeus amarus* (Bloch, 1782) - [LC]**

Common names. European bitterling / Acıbalık

Distribution. Marmara Sea Basin, as well as in the south and southwest Black Sea coast of Türkiye. It was also recorded in the Aras River in Iğdır, probably an introduced population (Kaya et al., 2020a).

***Rhodeus tugbae* Kalaycı, Kurtul, Bayçelebi, Kaya & Turan, 2025 - [NE]**

Common names. Aegean bitterling / Ege Acıbalığı

Distribution. Endemic. Gediz, Büyük Menderes, Tahtalı, and Bakır rivers on the Turkish Aegean Sea coast.

FAMILY XENOCYPRIDIDAE GÜNTHER, 1868

***Hypophthalmichthys molitrix* (Valenciennes 1844) - [Non-native]**

Common names. Silver carp / Asya sazanı

Distribution. Meriç River in northwest Türkiye. It is also observed in Keban Dam (Euphrates drainage).

***Hypophthalmichthys nobilis* (Richardson 1845) - [Non-native]**

Common names. Bighead carp / Kocabaş sazan

Distribution. Meriç River in northwest Türkiye.

FAMILY GOBIONIDAE BLEEKER, 1863

***Gobio artvinicus* Turan, Japoshvili, Aksu & Bektaş, 2016 - [LC]**

Common names. Colchic gudgeon / Çoruh derekayası

Distribution. The species was known only from the Çoruh River drainages, where it was described. However, a potentially introduced population of this species was recorded in a drainage of the Aras River in Türkiye (Kaya et al., 2020a).

***Gobio baliki* Turan, Kaya, Bayçelebi, Aksu, Bektaş, 2017 - [VU]**

Common names. Melen gudgeon / Melen derekayası

Distribution. Endemic. Büyük Melen River drainage in the southern Black Sea.

***Gobio bulgaricus* Drensky, 1926 - [LC]**

Common names. Meriç gudgeon / Meriç derekayası

Distribution. Northern Marmara Basin and Ergene River Aegean Sea watersheds in northwestern Türkiye.

***Gobio fahrettini* Turan, Kaya, Bayçelebi, Aksu, Bektaş, 2018 - [EN]**

Common names. Ilgın gudgeon / Ilgın derekayası

Distribution. Endemic. Lake Ilgın tributaries in Central Anatolia.

***Gobio gymnostethus* Ladiges, 1960 - [CR]**

Common names. Cappadocian gudgeon / Kapadokya derekayası

Distribution. Endemic. Melendiz River, southeastern Tuz Lake Basin in Central Anatolia.

***Gobio hettitorum* Ladiges, 1960 - [VU]**

Common names. Taurus gudgeon / Larende derekayası

Distribution. Endemic. Yeşildere, Deliçay, Gödet, and Ayrancı Stream drainages (Karaman), and Ereğli marshes.

***Gobio insuayanus* Ladiges, 1960 - [CR]**

Common names. Cihanbeyli gudgeon / Cihanbeyli derekayası

Distribution. Endemic. İnsuyu (Cihanbeyli) drainage, western Tuz Lake Basin in Central Anatolia.

***Gobio intermedius* Battalgil, 1944 - [EN]**

Common names. Eber gudgeon / Eber derekayası

Distribution. Endemic. Akşehir and Eber Lake basins in Central Anatolia.

***Gobio kizilirmakensis* Turan, Japoshvili, Aksu & Bektaş, 2016 - [EN]**

Common names. Filyos gudgeon / Filyos derekayası

Distribution. Endemic. Upper reaches of Filyos River drainages in southwestern Black Sea (Yoğurtçuoğlu et al., 2020).

***Gobio kovatschevi* Chichkoff, 1937 - [LC]**

Common names. Thracian gudgeon / Trakya derekayası

Distribution. Istanca, Bakacak, and Karamenderes streams in Thrace Region, as well as in the rivers in Biga Peninsula and outflow of Lake Abant, northwestern Türkiye.

***Gobio maeandricus* Naseka, Erk'akan & Küçük, 2006 - [EN]**

Common names. Işıklı gudgeon / Işıklı derekayası

Distribution. Endemic. Işıklı Lake Basin in West Anatolia.

***Gobio microlepidotus* Battalgil, 1942 - [VU]**

Common names. Beyşehir gudgeon / Yağlıca; Beyşehir derekayası

Distribution. Endemic. The species was known from Lake Beyşehir Basin in Central Anatolia. Recently, it has been recorded from stream Limon and Göksu River (tributaries of Mediterranean Sea) (Turan & Bayçelebi, 2019).

Taxonomic notes. *Gobio battalgili* is a synonym of this species (Turan et al., 2018).

***Gobio sakaryaensis* Turan, Ekmekçi, Luskova & Mendel, 2012 - [LC]**

Common names. Sakarya gudgeon / Sakarya derekayası

Distribution. Endemic. Sakarya and Filyos River drainages in the southern Black Sea.

***Pseudorasbora parva* (Temminck & Schlegel, 1842) - [Non-native]**

Common names. Stone moroko / Çakıl balığı

Distribution. Firstly introduced into the Meriç River, then to Mediterranean Sea watersheds; later introduced to the Kızılırmak and Sakarya rivers (Black Sea watersheds), Sarıçay Stream, and Gediz, Bakırçay, and Büyük Menderes rivers (Aegean Sea watersheds), and Kura and Aras drainages.

***Romanogobio macropterus* (Kamensky, 1901) - [VU]**

Common names. Caucasian stone gudgeon / Kafkas derekayası

Distribution. Kura and Aras River drainages in northeastern Türkiye.

FAMILY LEUCISCIDAE BONAPARTE, 1835

***Abramis brama* (Linnaeus, 1758) - [LC]**

Common names. Bream / Çapak balığı

Distribution. Middle and western Turkish coast of Black Sea, Lake Durusu, Marmara Sea basin, and Thrace Region (İlhan et al., 2020; Freyhof et al., 2025a).

***Acanthobrama centisquama* Heckel, 1843 - [EX]**

Common names. Long-spine bream / Amik akçapağı

Distribution. It was identified from Amik Lake and is distributed in the Orontes River.

***Acanthobrama marmid* Heckel, 1843 - [LC]**

Common names. Mesopotamian bream / Akçapak

Distribution. Tigris, Euphrates, and Qweiq River basins.

***Acanthobrama punctulata* (Kessler, 1877) - [VU]**

Common names. Caucasian bream / Kafkas akçapağı

Distribution. Kura and Aras River drainages in northeastern Türkiye.

***Acanthobrama orontis* Berg, 1949 - [LC]**

Common names. Cilician bream / Asi akçapağı

Distribution. From Göksu River east to the Orontes River.

***Acanthobrama thisbeae* Freyhof & Özuluğ, 2014 - [LC]**

Common names. Ceyhan bream / Ceyhan akçapağı

Distribution. Lower Ceyhan and Orontes River basins.

***Alburnoides coskuncelebi* Turan, Kaya, Aksu, Bayçelebi & Bektaş, 2016 - [VU]**

Common names. Büyük Melen spirilin / Melen noktalı incisi

Distribution. Büyük Melen, Çayağzı (Düzce), and Alaplı (Zonguldak) drainages, in northeastern Anatolia (Turan et al., 2019).

***Alburnoides diclensis* Turan, Bektaş, Kaya & Bayçelebi, 2016 - [LC]**

Common names. Great Zab spirilin / Zap noktalı incisi

Distribution. Greater Zab in southeastern Anatolia.

Note. Turan et al. (2016) described this species from the headwater of Greater Zab and its drainage, the stream Erziki, northern Hakkari, which is very close to the border of Iraq. The species most probably occurs also in Iraq. Therefore, we did not treat it as an endemic species to Türkiye.

***Alburnoides eichwaldii* De Filippi, 1863 - [LC]**

Common names. Kura spirilin / Kura noktalı incisi

Distribution. Kura and Aras River drainages in northeastern Anatolia.

***Alburnoides emineae* Turan, Kaya, Ekmekçi & Doğan, 2014 - [EN]**

Common names. Khabur spirilin / Habur noktalı incisi

Distribution. Beyazsu Stream, eastern Anatolia, drainage of the Euphrates River, Persian Gulf basin.

***Alburnoides fasciatus* (Nordmann, 1840) - [LC]**

Common names. Colchic spirilin / Kafkasya noktalı incisi

Distribution. Tributaries of the Black Sea coast in northeastern Anatolia.

***Alburnoides freyhofi* Turan, Kaya, Bayçelebi, Bektaş & Ekmekçi, 2017 - [LC]**

Common names. Kızılırmak spirilin / Kızılırmak noktalı incisi

Distribution. Endemic. Known only from Kızılırmak River drainages in northern Anatolia.

***Alburnoides kosswigi* Turan, Kaya, Bayçelebi, Bektaş & Ekmekçi, 2017 - [LC]**

Common names. Sakarya spirilin / Sakarya noktalı incisi

Distribution. Endemic. Known from Sakarya River drainages in northwestern Anatolia, as well as in Lake Ilgın Basin.

***Alburnoides kurui* Turan, Kaya, Bayçelebi, Bektaş & Ekmekçi, 2017 - [LC]**

Common names. Yeşilirmak spirilin / Yeşilirmak noktalı incisi

Distribution. Endemic. Known only from Yeşilirmak River drainages in northern Anatolia.

***Alburnoides manyasensis* Turan, Ekmekçi, Kaya & Güçlü, 2013 - [LC]**

Common names. Manyas spirilin / Manyas noktali incisi

Distribution. Endemic. Known from southern Marmara Sea tributaries.

***Alburnoides petrubanarescui* Bogutskaya & Coad, 2009 - [EN]**

Common names. Urmia spirilin / Urmia noktali incisi

Distribution. The species is known from only Lake Urmia drainages.

Note. *Alburnoides petrubanarescui* was described by Bogutskaya & Coad (2009) based on the specimens collected by V.D. Vladykov in 1962 from Qasemlou Chay (37°21'N, 45°09'E), Urmia basin. Iranian researchers speculate that the species may have never been there and it was described by the mislabelled materials because the species had not been found again after the description. Fortunately, the species has recently been found in Stream Esendere, a western drainage of Lake Urmia in Türkiye (Kaya, 2020a).

***Alburnoides smyrnae* Pellegrin, 1927 - [LC]**

Common names. Eastern Aegean spirilin / Ege noktali incisi

Distribution. Endemic. Originally described from stream Meles (Kemer, İzmir) as *A. bipunctatus* var. *smyrnae*. Despite several attempts, this species could not be found again from the type locality and the other streams around İzmir. The specimens collected from stream Banaz, a tributary of the Büyük Menderes River, by Turan et al. (2013) exhibited character states similar to those known in *A. bipunctatus* var. *smyrnae*. Therefore, they treated Büyük Menderes spirilin populations as *Alburnoides* cf. *smyrnae*.

***Alburnoides turani* Kaya, 2020 - [LC]**

Common names. Filyos spirilin / Filyos noktali incisi

Distribution. Endemic. The species is known only in Filyos River drainages of northern Anatolia.

***Alburnoides tzanevi* (Chichkoff, 1933) - [VU]**

Common names. Thracian spirilin / Trakya noktali incisi

Distribution. The Western Black Sea Basin in Thrace from Veleka south to İstanbul and east to Karasu (Sinop) drainage.

***Alburnoides velioglui* Turan, Kaya, Ekmekçi & Doğan, 2014 - [LC]**

Common names. Mesopotamian spirilin / Mezopotamya noktali incisi

Distribution. Euphrates River drainage eastern Anatolia.

***Alburnus adanensis* Battalgazi, 1944 - [EX]**

Common names. Adana bleak / Adana inci balığı

Distribution. Endemic. Seyhan and Ceyhan River drainages in southern Anatolia (Feyhof et al., 2025a).

***Alburnus akili* Battalgil, 1942 - [EX]**

Common names. Beyşehir bleak / Gövce

Distribution. Endemic. The species was known from Lake Beyşehir Basin in Central Anatolia. However, it was reported that the species became extinct (Küçük, 2012).

***Alburnus alburnus* (Linnaeus, 1758) - [LC]**

Common names. Bleak / İnci balığı

Distribution. Known from Meriç and Susurluk River drainages in northwestern Türkiye.

***Alburnus atropatenae* Berg, 1925 - [LC]**

Common names. Urmia bleak / Urmia inci balığı

Distribution. The species is endemic to the Lake Urmia basin. Recorded in Türkiye in Onbaşılar Stream, a drainage of Nazlı River (Kaya, 2020a).

***Alburnus baliki* Bogutskaya, Küçük & Ünlü, 2000 - [VU]**

Common names. Antalya spotted bleak / Antalya inci balığı

Distribution. Endemic. Between Aksu and Karpuz, in southwestern Anatolia, Mediterranean Sea drainage.

***Alburnus caeruleus* Heckel, 1843 - [LC]**

Common names. Black spotted bleak / Benekli inci balığı

Distribution. Qweiq, Tigris, and Euphrates River drainages, eastern Anatolia.

***Alburnus carianorum* Freyhof, Kaya, Bayçelebi, Geiger & Turan, 2019 - [LC]**

Common names. Carian bleak / Karya inci balığı

Distribution. Endemic. Dalaman and Büyük Menderes River drainages in southeastern Anatolia.

Taxonomic note. *Alburnus kurui* Mangit & Yerli, 2018 became a junior secondary homonym of *A. kurui* (Bogutskaya, 1995) and *A. carianorum* was proposed as its replacement name (Freyhof et al., 2018).

***Alburnus demiri* Özuluğ & Freyhof, 2007 - [EN]**

Common names. Eastern Aegean bleak / Tahtalı inci balığı

Distribution. Endemic. Tahtalı and Küçük Menderes River drainages in western Anatolia.

***Alburnus derjugini* Berg, 1923 - [LC]**

Common names. Georgian shemaya / Karadeniz inci balığı

Distribution. Marmara and Black Sea basins, and also the Bakırçay, Güzelhisar, and Gediz River drainages in the Aegean Sea basin.

Taxonomic note. Because of the large overlap in morphological characters and no difference in COI DNA sequences *Alburnus attalus*, *A. battalgilae*, *A. carinatus*, *A. istanbulensis*, and *A. nicaeensis* accepted as synonyms of *A. derjugini* (Sariahmetoğlu, 2024).

***Alburnus escherichii* Steindachner, 1897 - [LC]**

Common names. Sakarya bleak / Sakarya inci balığı

Distribution. Endemic. Sakarya River drainage and the Lake Eber, Akşehir, and Ilgın basins. Locally in Kızılırmak drainage (likely introduced). Introduced in the Lake Beyşehir, Karamık, Eber basins and the Manavgat drainage, and Elmadere (Karaman) maybe in other locations.

Note. *Alburnus nasreddini* is a synonym of this species (Bayçelebi et al., 2020).

***Alburnus filippii* Kessler 1877 - [LC]**

Common names. Kura bleak / Kura inci balığı

Distribution. Kura and Aras River drainages in northeastern Anatolia.

***Alburnus goekhani* Özüluğ, Geiger & Freyhof, 2018 - [LC]**

Common names. Kızılırmak bleak / Kızılırmak inci balığı

Distribution. Endemic. Abdal, Yeşilirmak, and Kızılırmak River drainages, northern Anatolia.

***Alburnus hohenackeri* Kessler, 1877 - [LC]**

Common names. Caspian bleak / Hazar incisi

Distribution. It has been recently recorded in a drainage of the Aras River in Türkiye (Kaya et al., 2020a). Also in brackish water.

***Alburnus kotschy* Steindachner, 1863 - [LC]**

Common names. İskenderun bleak / İskenderun inci balığı

Distribution. Endemic. Widespread in Tarsus, Seyhan, and Ceyhan River drainages, as well as coastal streams flowing to the Gulf of İskenderun north of Orontes.

***Alburnus kurui* (Bogutskaya, 1995) - [EN]**

Common names. Yüksekova bleak / Yüksekova inci balığı

Distribution. Endemic. Yüksekova wetland (Hakkari) upper Greater Zap.

Taxonomic notes. *Leuciscus kurui* (Bogutskaya, 1995) was recorded for the first time by Freyhof et al. (2018) since its collection by Mustafa Kuru in 1974. Freyhof et al. (2018) evaluated this species in the genus *Alburnus* based on molecular and morphological features.

***Alburnus magnificus* Freyhof & Turan, 2019 - [VU]**

Common names. Hatay spotted bleak / Hatay inci balığı

Distribution. Orontes River drainage in southern Anatolia.

***Alburnus orontis* Sauvage, 1882 - [VU]**

Common names. Orontes spotted bleak / Asi inci balığı

Distribution. Orontes River drainages, southern Anatolia.

***Alburnus sellal* Heckel, 1843 - [LC]**

Common names. Shah kuli / Doğu inci balığı

Distribution. Very widespread in Tigris and Euphrates River drainages, as well as Qweiq River. Introduced to Lake Gölbaşı and Ceyhan drainage.

Taxonomic notes. *Alburnus heckeli*, *A. mossulensis*, *A. selcuklui*, and *A. zagrosensis* are synonyms (Freyhof et al., 2025a).

***Alburnus tarichi* (Güldenstadt, 1814) - [LC]**

Common names. Tarek / İnci kefali

Distribution. Endemic. Widespread in Lake Van Basin in eastern Anatolia, also in lakes Nazik and Aygır.

***Alburnus timarensis* Kuru, 1980 - [EN]**

Common names. Karasu tarek / Karasu incisi

Distribution. Endemic. Stream Karasu, an eastern tributary of Lake Van drainages.

***Blicca bjoerkna* (Linnaeus, 1758) - [LC]**

Common names. Silver bream / Tahta balığı

Distribution. North and northeastern Turkish Black Sea coasts, Marmara Sea basin, northwestern Anatolia. Besides, it has been recently recorded in a drainage of Aras River in Türkiye (Kaya et al., 2020a). Also in brackish water.

***Chondrostoma beysehirense* Bogutskaya, 1997 - [VU]**

Common names. Beyşehir nase / Beyşehir kababurunu

Distribution. Endemic. Lake Beyşehir drainage in Central Anatolia.

***Chondrostoma ceyhanense* Küçük, Turan, Güçlü, Mutlu & Çiftci, 2017 - [LC]**

Common names. Cilician nase / Kilikya kababurunu

Distribution. Endemic. Ceyhan, Seyhan, and Berdan River drainages in southern Anatolia.

***Chondrostoma colchicum* Derjugin, 1899 - [LC]**

Common names. Colchic nase / Kafkasya kababurunu

Distribution. Sakarya (excluding Lake Sapanca) east to Çoruh River.

Taxonomic note. *Chondrostoma angorense* is a synonym (Küçük et al., 2023).

***Chondrostoma cyri* Kessler, 1877 - [VU]**

Common names. Southern Caspian nase / Hazar kababurunu

Distribution. Kura and Aras River drainages, northeastern Anatolia.

***Chondrostoma holmwoodii* (Boulenger, 1896) - [VU]**

Common names. Eastern Aegean nase / İzmir kababurunu

Distribution. Endemic. Bakır and Gediz River drainages.

***Chondrostoma kinzelbachi* Krupp, 1985 - [EN]**

Common names. Levantine nase / Asi kababurunu

Distribution. Orontes River drainage, southern Anatolia.

***Chondrostoma meandrense* Elvira, 1987 - [EN]**

Common names. Işıklı nase / Işıklı kababurunu

Distribution. Endemic. Known from the upper Büyük Menderes River drainage (Stream Küfi near Işıklı Spring, Karasandıklı Stream near Sandıklı, Büyük Menderes River at Çal).

***Chondrostoma nasus* (Linnaeus, 1758) - [LC]**

Common names. Nase / Kababurun

Distribution. Susurluk and Hoşap drainages on Biga Peninsula.

***Chondrostoma regium* (Heckel, 1843) - [LC]**

Common names. Mesopotamian nase / Mezopotamya kababurunu

Distribution. Widespread in Tigris and Euphrates River drainages, extirpated from Qweiq.

***Chondrostoma toros* Küçük, Turan, Güçlü, Mutlu & Çiftci, 2017 - [LC]**

Common names. Taurus nase / Toros kababurunu

Distribution. Endemic. Göksu River drainages in southern Anatolia.

***Chondrostoma turnai* Güçlü, Küçük, Turan, Çiftçi & Mutlu, 2017 - [LC]**

Common names. Menderes nase / Menderes kababurunu

Distribution. Endemic. Tahtalı, Küçük Menderes, and Büyük Menderes River drainages eastern Anatolia.

***Chondrostoma vardarense* Karaman, 1928 - [LC]**

Common names. Vardar nase / Vardar kababurunu

Distribution. Meriç River drainages, northwestern Türkiye.

***Egirdira nigra* (Kosswig & Geldiay, 1952) - [VU]**

Common names. Egirdira / Eğirdir yağ balığı

Distribution. Endemic. Lake Eğirdir Basin, Eflatunpınarı in Lake Beyşehir Basin, and Yeşilyurt Spring in upper Aksu drainage.

***Ladigesocypris ghigii* (Gianferrari, 1927) - [LC]**

Common names. Gizani / İlik balığı

Distribution. Isolated populations around Marmaris, Lake Köyceğiz, and in lower Dalaman drainage.

***Leucalburnus satunini* (Berg, 1910) - [LC]**

Common names. Ardahan mountain dace / Ardahan incisi

Distribution. Endemic. Upper Kura River drainages in northeastern Türkiye.

***Leucaspis delineatus* (Heckel, 1843) - [LC]**

Common names. Sun bleak / Cüce inci balığı

Distribution. Thrace region in northwestern Türkiye, also in Lake Sapanca (Sakarya) (İlhan et al., 2024) west to Susurluk drainage in Marmara Sea basin, including lakes Apolyont and Manyas.

***Leuciscus aspius* (Linnaeus, 1758) - [LC]**

Common names. Asp / Kocaağız

Distribution. Western Turkish Black Sea drainages and Thrace Region, also in upper Aras River in northeastern Türkiye. Also in brackish water.

***Leuciscus vorax* (Heckel, 1843) - [LC]**

Common names. Mesopotamian asp / Sis balığı

Distribution. Tigris and Euphrates River basins.

Note. *Leuciscus vorax* is also reported in the Orontes River. Based on our many fieldwork experiments in the area, we did not confirm records of this species from the Turkish Orontes.

***Petroleuciscus borysthenicus* (Kessler, 1859) - [LC]**

Common names. Bobyretz / Bodur tatlısu kefali

Distribution. Widespread in Marmara Sea watersheds and known from some streams draining to the Thracian Black Sea. Also was recorded from Gökçeada-Çanakkale (Ağdamar et al., 2021) and two coastal drainages in Samsun.

***Petroleuciscus ninae* Turan, Kalaycı, Kaya, Bektaş & Küçük, 2018 - [LC]**

Common names. Menderes chub / Menderes bodur tatlısu kefali

Distribution. Endemic. Büyük Menderes, Küçük Menderes, Sarıçay (Muğla), and Tahtalı drainages. Locally introduced to Acıgöl (Kaya et al., 2024; Saç et al., 2025).

***Petroleuciscus smyrnaeus* (Boulenger, 1896) - [LC]**

Common names. Smyrna chub / Gediz bodur tatlısu kefali

Distribution. Gediz and Bakır River drainages, in eastern Anatolia.

***Phoxinus abanticus* Turan, Bayçelebi, Özuluğ, Gaygusuz & Aksu, 2023 - [LC]**

Common names. Abant minnow / Abant golyan balığı

Distribution. Endemic. Lake Abant Basin.

***Phoxinus colchicus* Berg, 1910 - [LC]**

Common names. Caucasian minnow / Kafkas golyan balığı

Distribution. Recorded from Çoruh River by Bayçelebi et al. (2015).

***Phoxinus kottelati* Bayçelebi, 2025 - [NE]**

Common names. Anatolian minnow / Anadolu golyan balığı

Distribution. Stream Koca, drainage of Lake Manyas, Marmara Sea basin, and the streams Uludere and Akgüney, Black Sea basin.

***Phoxinus radeki* Bayçelebi, Aksu & Turan, 2024 - [NE]**

Common names. Ergene minnow / Ergene golyan balığı

Distribution. Ergene River drainages in Aegean Sea Basin.

***Phoxinus strandjae* Drensk, 1926 - [LC]**

Common names. Strandzha minnow / Rezve golyan balığı

Distribution. Veleka and Resowska (Rezve) drainages, draining from Yıldız (Strandzha) Mountains to Black Sea (Bulgaria, Türkiye), east to İstanbul, Lake Sapanca.

***Pseudophoxinus alii* Küçük, 2007 - [VU]**

Common names. Pamphylian spring minnow / Manavgat ot balığı

Distribution. Endemic. Ilica, Aksu, Köprüçay, and Kömürcüler streams, all around Antalya, southwestern Anatolia.

***Pseudophoxinus anatolicus* (Hanko, 1925) - [VU]**

Common names. Giant spring minnow / Yağ balığı

Distribution. Endemic. Lake Beyşehir, Suğla, Hotamis, and Akgöl (Ereğli) basins, Central Anatolia.

***Pseudophoxinus antalyae* Bogutskaya, 1992 - [EN]**

Common names. Antalya spring minnow / Çiçek balığı

Distribution. Endemic. Düden and Kırkgöz springs around Antalya and out flowing stream Yediarıklar in Bay of Antalya, southern Anatolia.

***Pseudophoxinus battalgilae* Bogutskaya, 1997 - [LC]**

Common names. Lycaonian spring minnow / Beyşehir ot balığı

Distribution. Endemic. Lake Ilgın, Akgöl, Beyşehir, and Suğla basins, as well as around water sources near Niğde and Manavgat drainages, and Gödet Reservoir (Küçük et al., 2024).

***Pseudophoxinus burduricus* Küçük, Gülle, Güçlü, Çiftçi & Erdoğan, 2013 - [EN]**

Common names. Burdur spring minnow / Burdur ot balığı

Distribution. Endemic. Salda and Yarıklı (Sazak Spring) basins, Değirmendere, Karamanlı, Düğer, and Bozçay

streams (a southwest tributary of Lake Burdur). Extirpated from Lake Karataş.

***Pseudophoxinus cilicicus* Saç, Özuluğ, Geiger & Freyhof, 2019 - [LC]**

Common names. Cilician spring minnow / Kilikya ot balığı

Distribution. Endemic. Lower Tarsus, Seyhan, and Ceyhan drainages and a small stream at Arsuz southeastern Anatolia (Saç et al., 2019a).

***Pseudophoxinus crassus* (Ladiges, 1960) - [EN]**

Common names. Fat spring minnow / İnsuyu ot balığı

Distribution. Endemic. İnsuyu Stream in Lake Tuz Basin, also Lake Kozanlı and Samsam basins, springs south of Eşmekaya and near Aksaray and Niğde.

***Pseudophoxinus elizavetae* Bogutskaya, Küçük & Atalay, 2006 - [CR]**

Common names. Sultansazlığı minnow / Sultansazlığı ot balığı

Distribution. Endemic. Known only from Sultansazlığı (=Sultan Marshes) in Kayseri.

***Pseudophoxinus evliyai* Freyhof & Özuluğ, 2010 - [EN]**

Common names. Lycian spring minnow / Likya ot balığı

Distribution. Endemic. Kırkpınar spring, Lake Söğüt and Avlan basins, Akçay drainage (Finike).

Taxonomic note. Originally described as *P. evliyae*, it was changed to *P. evliyai* based on gender rules (Freyhof et al., 2025a).

***Pseudophoxinus fahrettini* Freyhof & Özuluğ, 2010 - [EN]**

Common names. Pisidian spring minnow / Isparta ot balığı

Distribution. Endemic. Known from upper and middle Köprüçay drainage, around Isparta.

***Pseudophoxinus firati* Bogutskaya, Küçük & Atalay, 2006 - [LC]**

Common names. Euphrates spring minnow / Fırat ot balığı

Distribution. Endemic. Described from Spring Yazıurdu, upper drainage of Tohma Stream, headwater Euphrates River. However, the distribution range of the species has been recently expanded by Saç et al. (2019b). Accordingly, the species also recorded from Süt Kaynağı Stream, one of the eastern most tributaries of upper Murat River (Bitlis); Balıklıtohma and Tohma streams, western Euphrates River tributaries (Sivas); Göz Spring and Çağlayan and Aksu streams, upper Ceyhan River tributaries (Kahramanmaraş); Karahalka Spring, an uppermost tributary of Seyhan River (eastern Pınarbaşı).

***Pseudophoxinus handlirschi* (Pietschmann, 1933) - [EX]**

Common names. Eğirdir minnow / Kavinne

Distribution. Endemic. Lake Eğirdir.

***Pseudophoxinus hittitorum* Freyhof & Özuluğ, 2010 - [VU]**

Common names. Hittite spring minnow / Hitit ot balığı

Distribution. Endemic. Tributaries of Lake Beyşehir.

***Pseudophoxinus iconii* Küçük, Güllü & Güçlü, 2016 - [CR]**

Common names. Tuz spring minnow / Konya ot balığı

Distribution. Endemic. Gölyazı, Büğet, Tersakan, and Bolluk drainages in Lake Tuz Basin.

***Pseudophoxinus libani* (Lortet 1883) - [LC]**

Common names. Lebanese minnow / Lübnan ot balığı

Distribution. Orontes River drainages, southern Anatolia.

Taxonomic notes. *Pseudophoxinus kervillei* is a synonym of this species (Bariche & Freyhof, 2016).

***Pseudophoxinus maeandri* (Ladiges, 1960) - [EN]**

Common names. Apamean spring minnow / Işıklı ot balığı

Distribution. Endemic. Tributaries of Lake Işıklı, upper Büyük Menderes River in southwest Central Anatolia.

***Pseudophoxinus maeandricus* (Ladiges, 1960) - [CR]**

Common names. Sandıklı spring minnow / Menderes ot balığı

Distribution. Endemic. Streams Küfi and Karadirek upper Büyük Menderes River drainages.

***Pseudophoxinus mehmeti* Ekmekçi, Atalay, Yoğurtcuoğlu, Turan & Küçük, 2015 - [CR]**

Common names. Alanköy spring minnow / Alanköy ot balığı

Distribution. Endemic. Lake Çorak (Akgöl) Basin.

***Pseudophoxinus ninae* Freyhof & Özuluğ, 2006 - [EN]**

Common names. Onaç spring minnow / Onaç ot balığı

Distribution. Endemic. Streams Onaç (Burdur), Karaevli and Kestel marshes, Central Anatolia.

***Pseudophoxinus turani* Küçük & Güçlü, 2014 - [VU]**

Common names. Karasu spring minnow / İncesu ot balığı

Distribution. Endemic. Spring İncesu, a tributary of the Orontes River, southern Anatolia.

***Pseudophoxinus zekayi* Bogutskaya, Küçük & Atalay, 2006 - [EN]**

Common names. Ceyhan spring minnow / Ceyhan ot balığı

Distribution. Endemic. Eastern Ceyhan drainage, in springs around Çöçelli and Lake Gölbaşı.

***Pseudophoxinus zeregi* (Heckel, 1843) - [EN]**

Common names. Levantine spring minnow / Asi ot balığı

Distribution. Orontes and Qweiq River drainages, southern Anatolia.

***Rutilus frisii* (Nordmann, 1840) - [LC]**

Common names. Vyrezub; Kutum / Levkit

Distribution. Southern Marmara and Black Sea coasts of Türkiye, also in Lake İznik and Lake Durusu basin. Also in brackish water.

***Rutilus lacustris* (Pallas, 1814) - [LC]**

Common names. Taran / Taran

Distribution. Known only from the Aras River in eastern Anatolia. Also in brackish water.

***Rutilus rutilus* (Linnaeus, 1758) - [LC]**

Common names. Roach / Kızılğöz

Distribution. Southern Marmara Sea Basin and Thrace Region, also in Sakarya drainage, northwest Türkiye. Also in brackish water.

***Scardinius elmaliensis* Bogutskaya, 1997 - [VU]**

Common names. Elmali rudd / Elmali kızılkanadı

Distribution. Endemic. Akçay drainage: Lake Avlan, Karagöl and its canals in Elmalı (Antalya) and Çayboğazı Reservoir. Dalaman drainage: Lake Gölhisar,, Çavdır, and Yapraklı reservoirs. Burdur basin: Lake Karataş and Belenli Reservoir (Saç et al., 2025). In the endorheic former Söğüt basin as in Osmankalfalar Reservoir.

***Scardinius erythrophthalmus* (Linnaeus, 1758) - [LC]**

Common names. Rudd / Kızılkanat

Distribution. Marmara and Black Sea basins east to Kızılırmak, also in Thracian Black Sea drainages.

***Squalius agdamicus* Kamensky, 1901 - [LC]**

Common names. Kura dace / Kura tatlısu kefali

Distribution. The species has been reported from upper Kura River drainages in northeast Anatolia (Bayçelebi, 2019).

***Squalius anatolicus* (Bogutskaya, 1997) - [LC]**

Common names. Beyşehir pike dace / Beyşehir tatlısu kefali

Distribution. Endemic. Lake Beyşehir and Tuz basins, as well as Manavgat River.

***Squalius aristotelis* Özuluğ & Freyhof, 2011 - [EN]**

Common names. Tuzla chub / Tuzla tatlısu kefali

Distribution. Endemic. Stream Behramkale, a coastal stream draining to the Aegean Sea at Assos at the southwestern Biga Peninsula, Tuzla drainage.

***Squalius berak* Heckel, 1843 - [LC]**

Common names. Euphrates chub / Fırat tatlısu kefali

Distribution. Qweiq, Tigris, and Euphrates River drainages.

Remarks. In several earlier studies from the Euphrates and Tigris River basins, the species was reported under different names such as *Leuciscus cephalus orientalis*, *Leuciscus cephalus*, and *Squalius orientalis*. These names are currently regarded as junior synonyms of *Squalius berak*.

***Squalius cappadocicus* Özuluğ & Freyhof, 2011 - [LC]**

Common names. Anatolian chub / Anadolu tatlısu kefali

Distribution. Endemic. Anatolian Black Sea coasts west of Çoruh. Eastern tributaries of Sakarya and in Melendiz drainage (Lake Tuz basin). Seyhan, Sırlı, Toprakkale, Serçeme (tributaries of Karasu), and Pülümür in northeastern Euphrates.

***Squalius carinus* Özuluğ & Freyhof, 2011 - [EN]**

Common names. Chocklate chub / Takoz tatlısu kefali

Distribution. Endemic. Lake Işıkli Basin, western Anatolia.

***Squalius cephalus* (Linnaeus, 1758) - [LC]**

Common names. European chub / Avrupa tatlısu kefali

Distribution. Thracian Black Sea drainages. Also in brackish water.

***Squalius cii* (Richardson, 1857) - [LC]**

Common names. Marmara chub / Marmara tatlısu kefali

Distribution. Endemic. The streams drain to the southern Marmara Sea Basin, also in Lake İznik,

Sapanca basins, and Stream Karamenderes flowing to Aegean Sea in the Biga Peninsula.

***Squalius fellowesii* (Günther, 1868) - [LC]**

Common names. Aegean chub / Ege tatlısu kefali

Distribution. Endemic. Known from Eşen north to Madra, absent from Tahtalı and Küçük Menderes, Aegean Sea Basin. Also, introduced into the Stream Aksu (near Antalya).

***Squalius kosswigi* (Karaman, 1972) - [LC]**

Common names. Striped chub / Bantlı tatlısu kefali

Distribution. Endemic. Küçük Menderes, Tahtalı drainages, and four coastal streams west to Azmak, in Aegean Sea Basin.

***Squalius kottelati* Turan, Yılmaz & Kaya, 2009 - [LC]**

Common names. Cilician pike chub / Kilikya tatlısu kefali

Distribution. Orontes, Seyhan, and Ceyhan River drainages.

***Squalius lepidus* Heckel, 1843 - [LC]**

Common names. Mesopotamian pike chub / Akbalık

Distribution. Tigris and Euphrates River drainages, southeastern Anatolia.

***Squalius orientalis* Heckel, 1847 - [LC]**

Common names. Georgian chub / Çoruh tatlısu kefali

Distribution. Çoruh River drainage, northeastern Anatolia.

***Squalius orpheus* Kottelat & Economidis, 2006 - [LC]**

Common names. Thrace chub / Trakya tatlısu kefali

Distribution. Meriç River drainage, Aegean Sea Basin.

***Squalius pursakensis* Hanko, 1925 - [LC]**

Common names. Sakarya chub / Sakarya tatlısu kefali

Distribution. Endemic. Sakarya River drainage, Black Sea Basin. Also, in Lake Eber, Akşehir and Ilgın basins.

***Squalius turcicus* De Filippi, 1865 - [LC]**

Common names. South Caspian chub / Hazar tatlısu kefali

Distribution. Aras River drainages, northeastern Anatolia.

***Squalius verepi* Turan, 2022 - [LC]**

Common names. Tigris chub / Dicle tatlısu kefali

Distribution. Tigris River drainages, eastern Anatolia.

***Turcichondrostoma fahirae* (Ladiges, 1960) - [EN]**

Common names. Tefenni nase / Tefenni kababurunu

Distribution. Endemic. Kırkpınar (Başpınar) Spring near Karamusa (Tefenni), Değirmendere flowing into Karamanlı Reservoir (Turan et al., 2021), Lake Karataş, Elmacık Reservoir, and Bozçay in Burdur Basin (Saç et al., 2025).

***Vimba vimba* (Linnaeus, 1758) - [LC]**

Common names. Vimba bream / Eğrez

Distribution. Known from the Aegean basin (from Gediz to Eşen), southern Marmara Basin (including lakes Apolyont, Manyas, İznik, and Sapanca), and in Black Sea rivers. Lake Eğirdir Basin, Aksu River and Köprüçay which flow to the Gulf of Antalya. Also, in the Thrace region. Also in brackish water.

Remarks. *Vimba melanops* and *V. mirabilis* are synonyms (Freyhof et al., 2025a).

FAMILY TINCIDAE JORDAN, 1878***Tinca tinca* (Linnaeus, 1758) - [LC]**

Common names. Tench / Kadife balığı

Distribution. It is thought to be native to Black Sea basins. Now widely introduced in Anatolia, including Aegean and Mediterranean Sea drainages. Also in brackish water.

FAMILY DANIONIDAE BLEEKER, 1863***Barilius mesopotamicus* Berg, 1932 - [LC]**

Common names. Mesopotamian barilius / Kaşık balığı

Distribution. Tigris and Euphrates River drainages in southeastern Anatolia.

FAMILY COBITIDAE SWAINSON, 1838

Cobitidae was one of the poorest known families in Türkiye. Fortunately, the genus *Cobitis* has been reviewed by Freyhof et al. (2018). They resolved the richest genus of the family and recognized 25 species (with eight new species) throughout Türkiye.

***Cobitis afifeae* Freyhof, Bayçelebi & Geiger 2018 - [LC]**

Common names. Menderes spined loach / Menderes taşemeni

Distribution. Endemic. Küçük Menderes and Büyük Menderes River drainages and Lake Işıklı Basin.

***Cobitis aliyeae* Freyhof, Bayçelebi & Geiger 2018 - [LC]**

Common names. Cilician spined loach / Kilikya taşemeni

Distribution. Endemic. Lower part of the Tarsus, Ceyhan, and Seyhan River drainages.

***Cobitis anabelae* Freyhof, Bayçelebi & Geiger 2018 - [VU]**

Common names. Hatay spined loach / Hatay taşemeni

Distribution. Orontes River drainage, Mediterranean Sea Basin.

Notes. Turkish part of the Orontes populations formerly known as *Cobitis levantina*. This species was restricted to Syria by Freyhof et al. (2018).

***Cobitis battalgilae* Băcescu, 1962 - [VU]**

Common names. Beyşehir spined loach / Beyşehir taşemeni

Distribution. Endemic. Lake Beyşehir Basin and Manavgat River drainage were also reported below the Apa Reservoir by Perdices et al. (2018).

***Cobitis bilseli* Battalgil, 1942 - [EN]**

Common names. Great Beyşehir spined loach / Büyük Beyşehir taşemeni

Distribution. Endemic. Streams Sarıöz and Sarıçay, Lake Beyşehir Basin, the stream flowing from Lake Suğla to Lake Beyşehir, in Central Anatolia.

***Cobitis dorademiri* Erk'akan, Özdemir & Özeren, 2017 - [EN]**

Common names. Köyceğiz spined loach / Köyceğiz taşemeni

Distribution. Endemic. Lake Köyceğiz basin, lower Dalaman drainage, and some small coastal streams in between, Mediterranean Basin.

***Cobitis elazigensis* Coad & Sarıyüzoğlu, 1988 - [LC]**

Common names. Euphrates spined loach / Fırat taşemeni

Distribution. Endemic. Upper part of Euphrates River drainages.

Remarks. Freyhof et al. (2018) claimed that the species might be more widespread in the Euphrates drainages, even the Syrian Euphrates where Coad (2010) recorded *Cobitis*. However, we treated this species endemic to Türkiye until the taxonomic position of the Syrian population was confirmed.

***Cobitis emrei* Freyhof, Bayçelebi & Geiger 2018 - [VU]**

Common names. Sapanca spined loach / Sapanca taşemeni

Distribution. Endemic. Lake Sapanca Basin, northwestern Anatolia.

***Cobitis erkakanae* Freyhof, Bayçelebi & Geiger 2018 - [EN]**

Common names. Gölbaşı spined loach / Gölbaşı taşemeni

Distribution. Endemic. Lake Gölbaşı Basin, south of Adıyaman.

***Cobitis evreni* Erk'akan, Özeren & Nalbant 2008 - [EN]**

Common names. Ceyhan spined loach / Ceyhan taşemeni

Distribution. Endemic. The middle Ceyhan River drainage, southern Anatolia, Mediterranean Sea Basin.

***Cobitis fahirae* Erk'akan, Atalay-Ekmekçi & Nalbant 2008 - [LC]**

Common names. Aegean spined loach / Ege taşemeni

Distribution. Endemic. Between the south to the Madra River drainage to the upper Dalaman River drainage, western Anatolia, Aegean Sea Basin.

Taxonomic note. *Cobitis kurui* and *C. damlae* are synonyms of this species. See Freyhof et al. (2018) for details.

***Cobitis indus* Eagderi, Seçer & Freyhof, 2022 - [DD]**

Common names. Dalaman spined loach / Dalaman taşemeni

Distribution. Endemic. Middle Dalaman drainage, southwestern Anatolia.

***Cobitis joergbohleni* Freyhof, Bayçelebi & Geiger 2018 - [CR]**

Common names. Sultansazlığı spined loach / Sultansazlığı taşemeni

Distribution. Endemic. Sultan Marshes in the Develi depression, Central Anatolia.

***Cobitis kellei* Erk'akan, Atalay-Ekmekçi & Nalbant, 1998 - [EX]**

Common names. Diyarbakır spined loach / Diyarbakır taşemeni

Distribution. Endemic. Stream Göksu, upper Tigris River drainage, Persian Gulf basin.

***Cobitis phrygica* Battalgaži, 1944 - [EN]**

Common names. Phrygian spined loach / Firigya taşemeni

Distribution. Endemic. Acı, Burdur, Salda and Söğüt lakes, upper Dalaman and Eşen River drainages, also in Aksu, north of Bucak, and in one spring area east of Gemiş in Acıgöl Basin.

***Cobitis piri* Freyhof, Bayçelebi & Geiger 2018 - [VU]**

Common names. Pisidian spined loach / Eğirdir taşemeni

Distribution. Endemic. Köprüçay and Aksu River drainages, Lake Eğirdir drainage, Mediterranean Sea Basin.

***Cobitis pontica* Vasil'eva & Vasil'ev, 2006 - [NT]**

Common names. Burgas spined loach / Burgaz taşemeni

Distribution. Rezve River drainage, in northwest Türkiye.

***Cobitis puncticulata* Erk'akan, Atalay-Ekmekçi & Nalbant, 1998 - [EN]**

Common names. Brown spined loach / Kahverengi taşemeni

Distribution. Lake Manyas and Ulubat basins. These lakes are a part of the Simav River drainage, northwestern Anatolia.

***Cobitis saniae* Eagderi, Jouladeh-Roudbar, Jalili, Sayyadzadeh & Esmaeili, 2017 - [LC]**

Common names. Western Caspian spined loach / Hazar taşemeni

Distribution. Recently recorded from Streams Selim and Kars, Aras River drainages, northeastern of Türkiye (Freyhof et al., 2018).

***Cobitis satunini* Gladkov, 1935 - [LC]**

Common names. Colchic spined loach / Kafkas taşemeni

Distribution. The species is distributed in İyidere and Hopa within the eastern Black Sea basin, Filyos and Bartın drainages in the western Black Sea basin, and from Tuzla (northernmost Aegean region) eastward to the Lake İznik basin, including the Susurluk drainage.

***Cobitis simplicispina* Hanks 1925 - [LC]**

Common names. Galatian spined loach / Sakarya taşemeni

Distribution. Endemic. Known from Lake Eber, Ilgın, and Akşehir basins, as well as Sakarya and Kızılırmak River drainages.

***Cobitis sipahilerae* Erk'akan, Özdemir & Özeren, 2017 - [EN]**

Common names. Kırkgöz spined loach / Kırkgöz taşemeni

Distribution. Endemic. Düden and Kırkgöz springs and the outflowing stream Yediarıklar, Mediterranean Sea Basin.

***Cobitis splendens* Erk'akan, Atalay-Ekmekçi & Nalbant, 1998 - [LC]**

Common names. Bithynian spined loach / Akçakoca taşemeni

Distribution. Endemic. Small coastal streams around Akçakoca and Büyük Melen, Black Sea Basin, northwest Anatolia.

***Cobitis strumicae* Karaman, 1955 - [LC]**

Common names. Struma spine loach / Struma taşemeni

Distribution. Endemic. Thrace Region, Kocaçay in Çanakkale, and a doubtful record from Terme (Samsun, Black Sea Basin).

***Cobitis troasensis* Freyhof, Bayçelebi & Geiger 2018 - [EN]**

Common names. Dardanelles spined loach / Troya taşemeni

Distribution. Endemic. Tuzla River, Aegean Sea Basin, northwestern Anatolia.

***Cobitis turcica* Hankó, 1925 - [EN]**

Common names. Central Anatolian spined loach / Anadolu taşemeni

Distribution. Endemic. Ereğli, Melendiz (İhlara Valley), springs in Sultanhanı north of Sarı Yayla and Gölyazı.

***Sabanejewia aurata* (De Filippi, 1863) - [LC]**

Common names. Caspian golden Loach / Dikenli taşemeni

Distribution. Kura and Aras River drainages northeastern Anatolia.

FAMILY NEMACHEILIDAE REGAN, 1911 - [CR]***Oxynoemacheilus amanos* Kaya, Yoğurtçuoğlu & Freyhof, 2021**

Common names. Hassa loach / Hassa çöpçü balığı

Distribution. Endemic. İncesu Spring in Hassa, lower Orontes River in southwestern Anatolia.

***Oxynoemacheilus anatolicus* Erk'akan, Özeren & Nalbant, 2008 - [VU]**

Common names. Burdur loach / Burdur çöpçü balığı

Distribution. Endemic. Dalaman drainage and four spring-fed streams in Central Anatolia: Düğer, Ereçay at Elmacık near Kemer, Karamanlı Reservoir, and Pınarbaşı south Anatolia.

***Oxynoemacheilus angorae* (Steindachner, 1897) - [LC]**

Common names. Angora loach / Ankara çöpçü balığı

Distribution. Endemic. Susurluk east to Kızılırmak drainages and endorheic lakes İznik and Ilgın basins.

***Oxynoemacheilus araxensis* (Banareescu & Nalbant, 1978) - [LC]**

Common names. Erzurum loach / Erzurum çöpçü balığı

Distribution. Endemic. Stream Karasu, uppermost Euphrates River drainage, southeastern Anatolia.

***Oxynoemacheilus argyrogramma* (Heckel, 1847) - [LC]**

Common names. Two-spot loach / Çift benekli çöpçü balığı

Distribution. Qweiq River and southwestern Euphrates River drainages in Türkiye.

***Oxynoemacheilus arsaniasus* Freyhof, Kaya, Turan & Geiger, 2019 - [LC]**

Common names. Murat loach / Murat çöpçü balığı

Distribution. Endemic. The species was described in the upper Murat River drainages (Freyhof et al., 2019).

***Oxynoemacheilus axylos* Yoğurtçuoğlu, Kaya & Freyhof, 2022 - [VU]**

Common names. Central Anatolian loach / Beyşehir çöpçü balığı

Distribution. Endemic. Spring İnsuyu, lakes Samsam and Gök in Kozanlı, and Melendiz drainage (İhlara Valley), all in Lake Tuz Basin.

***Oxynoemacheilus banarescui* (Delmastro, 1892) - [LC]**

Common names. Paphlagonian sportive loach / Devrekani çöpçü balığı

Distribution. Endemic. Filyos and Devrekani drainages in Black Sea Basin northern Anatolia.

***Oxynoemacheilus bergianus* (Derjavin, 1934) - [LC]**

Common names. Sportive loach / Sportif çöpçü balığı

Distribution. Kızılırmak drainage in Anatolian Black Sea Basin, upper Zamantı (Seyhan) drainage in Mediterranean Basin, upper Euphrates and upper Tigris including Greater Zab.

Taxonomic notes. *Oxynoemacheilus erdali* from the upper Murat drainage in Türkiye, *O. lenkoranensis* from Azerbaijan, *O. longipinnis* and *O. parvinae* from Iran, and *O. samanticus* from Seyhan are synonyms (Freyhof et al., 2022).

***Oxynoemacheilus brandtii* (Kessler, 1877) - [LC]**

Common names. Caucasian loach / Kafkasya çöpçü balığı

Distribution. Kura and Aras River drainages in northeastern Anatolia.

***Oxynoemacheilus cemali* Turan, Kaya, Kalaycı, Bayçelebi & Aksu, 2019 - [LC]**

Common names. Çoruh loach / Çoruh çöpçü balığı

Distribution. Çoruh and Yeşilirmak drainages, northeastern Anatolia (Turan et al., 2019).

***Oxynoemacheilus ceyhanensis* (Erk'akan, Nalbant & Özeren, 2007) - [LC]**

Common names. Elbistan loach / Elbistan çöpçü balığı

Distribution. Endemic. Upper Ceyhan River drainages (Kahramanmaraş).

***Oxynoemacheilus chaboras* Kaya, Kurtul, Aksu, Oral & Freyhof, 2024 - [EN]**

Common names. Khabur two-spot loach / Habur çöpçü balığı

Distribution. Beyazsu Stream, eastern Anatolia, drainage of Euphrates River, Persian Gulf Basin.

***Oxynoemacheilus ciceki* Sungur, Jalili & Eagderi 2017 - [CR]**

Common names. Sultansazlığı loach / Sultansazlığı çöpçü balığı

Distribution. Endemic. Recently described from Sultan Marshes (Kayseri).

***Oxynoemacheilus cilicicus* Kaya, Turan, Bayçelebi, Kalaycı & Freyhof, 2020 - [LC]**

Common names. Cilician loach / Kilikya çöpçü balığı

Distribution. Endemic. The species has been recently described from the Göksu, Seyhan, and Ceyhan

drainages, all from the Mediterranean Sea basin (Kaya et al., 2020b).

***Oxynoemacheilus cyri* (Berg, 1910) - [LC]**

Common names. Kura banded loach / Kura çöpçü balığı

Distribution. Endemic. Upper Kura River, northeastern Anatolia, Kura drainages.

***Oxynoemacheilus eliasi* Yoğurtçuoğlu, Kaya & Freyhof, 2022 - [EN]**

Common names. Küçük Menderes loach / Küçük Menderes çöpçü balığı

Distribution. Endemic. Küçük Menderes, Tahtalı, and Gediz drainages.

***Oxynoemacheilus elsae* Eagderi, Jalili & Çiçek, 2018 - [LC]**

Common names. Urmia loach / Urmia çöpçü balığı

Distribution. The species is endemic to the Lake Urmia Basin. Recorded in Türkiye in Esendere Stream (Kaya, 2020a).

***Oxynoemacheilus ercisianus* (Erk'akan & Kuru, 1986) - [VU]**

Common names. Van loach / Van çöpçü balığı

Distribution. Endemic. Lake Van and its tributaries Zilan, Deli, Bendimahi, and Karasu, in eastern Anatolia.

***Oxynoemacheilus eregliensis* (Banarescu & Nalbant, 1978) - [VU]**

Common names. Ereğli loach / Ereğli çöpçü balığı

Distribution. Endemic. Known from Lake Tuz drainages, Ereğli (Konya) and around Karaman, and Manavgat drainage in Central Anatolia.

***Oxynoemacheilus euphraticus* (Banarescu & Nalbant, 1964) - [LC]**

Common names. Euphrates loach / Fırat çöpçü balığı

Distribution. Widespread in Euphrates and Tigris drainages.

***Oxynoemacheilus evreni* (Erk'akan, Nalbant & Özeren, 2007) - [LC]**

Common names. Ceyhan sportive loach / Tekir çöpçü balığı

Distribution. Endemic. Upper Ceyhan River.

***Oxynoemacheilus fatmae* Turan, Aksu, Güçlü & Kalaycı, 2024 - [NE]**

Common names. Güzelhisar loach / Güzelhisar çöpçü balığı

Distribution. Endemic. Güzelhisar drainage in northeastern Aegean Basin.

***Oxynoemacheilus fatsaensis* Saygun, Ağdamar & Özuluğ, 2021 - [LC]**

Common names. Yeşilirmak sportive loach / Yeşilirmak çöpçü balığı

Distribution. Endemic. Yeşilirmak drainage and adjacent coastal stream Elekçi.

***Oxynoemacheilus frenatus* (Heckel, 1843) - [LC]**

Common names. Mesopotamian loach / Mezopotamya çöpçü balığı

Distribution. Described from Mosul but recently recorded from tributaries of the upper Tigris and Batman drainages (Freyhof et al., 2017).

***Oxynoemacheilus germencicus* (Erk'akan, Nalbant & Özeren, 2007) - [LC]**

Common names. Carian loach / Karya çöpçü balığı

Distribution. Endemic. Büyük Menderes and Gediz River drainages in western Anatolia.

***Oxynoemacheilus hamwii* (Krupp & Schneider, 1991) - [VU]**

Common names. Orontes sportive loach / Asi çöpçü balığı

Distribution. Known from Orontes River drainages in southern Anatolia.

***Oxynoemacheilus hazarensis* Freyhof, & Özuluğ, 2017 - [EN]**

Common names. Hazar loach / Hazar çöpçü balığı

Distribution. Endemic. Lake Hazar Basin, Elazığ.

***Oxynoemacheilus isauricus* Yoğurtçuoğlu, Kaya, Özuluğ & Freyhof, 2021 - [EN]**

Common names. Beyşehir sportive loach / Beyşehir çöpçü balığı

Distribution. Endemic. Lake Beyşehir and Suğla basin.

***Oxynoemacheilus kaynaki* Erk'akan, Özeren & Nalbant, 2008 - [LC]**

Common names. Melid loach / Göksu çöpçü balığı

Distribution. Endemic. Upper Göksu, Kaynarca, and Gül, which are headwaters of Peri Suyu, Sultan Suyu, which flows to Karakaya Reservoir, and Kangal, which flows to Keban Reservoir, all in Euphrates drainage.

***Oxynoemacheilus kentritensis* Freyhof, Kaya & Turan, 2017 - [LC]**

Common names. Botan loach / Botan çöpçü balığı

Distribution. Headwater of the Botan River, also reported from streams Hezil and Nerduş rivers, which are small rivers draining to the Tigris in the border area of Türkiye (Kaya et al., 2016; Freyhof et al., 2017).

***Oxynoemacheilus kottelati* Turan, Aksu, Güçlü & Kalaycı, 2024 - [NE]**

Common names. Havran loach / Havran çöpçü balığı

Distribution. Endemic. Havran and Karınca in northeastern Aegean Basin.

***Oxynoemacheilus marmaraensis* Turan, Bayçelebi & Kalaycı, 2023 - [EN]**

Common names. Emet loach / Emet çöpçü balığı

Distribution. Endemic. Emet drainage, a tributary of Susurluk. Havran and Karınca in northeastern Aegean basin.

***Oxynoemacheilus marunensis* Sayyadzadeh, & Esmaeili, 2020 - [LC]**

Common names. Tigris two-spot loach / Dicle çöpçü balığı

Distribution. Widespread in Tigris River in southeastern Anatolia.

***Oxynoemacheilus mediterraneus* (Erk'akan, Nalbant & Özeren, 2007) - [LC]**

Common names. Pamphylian loach / Pamfilya çöpçü balığı

Distribution. Endemic. Aksu and Köprüçay drainages in the Gulf of Antalya.

***Oxynoemacheilus muefiti* Freyhof, Kaya, Turan & Geiger, 2019 - [LC]**

Common names. Stout Euphrates loach / Ağrı çöpçü balığı

Distribution. Endemic. The species was described in the upper Murat River drainage as well as in the Eğri, a tributary to Atatürk Reservoir (Freyhof et al., 2019).

***Oxynoemacheilus namiri* (Krupp & Schneider, 1991) - [LC]**

Common names. Levantine loach / Akdeniz çöpçü balığı

Distribution. Orontes River, southern Anatolia, Mediterranean Sea drainages.

***Oxynoemacheilus nasreddini* Yoğurtçuoğlu, Kaya & Freyhof, 2021 - [VU]**

Common names. Eber loach / Eber çöpçü balığı

Distribution. Endemic. Lakes Akşehir, Eber, Eğirdir, and Ilgın basins.

***Oxynoemacheilus paucilepis* (Erk'akan, Nalbant & Özeren, 2007) - [EN]**

Common names. Tohma loach / Tohma çöpçü balığı

Distribution. Endemic. Mancınık, Çetinkaya, and Kalkım drainages in upper Euphrates.

***Oxynoemacheilus sarali* Turan, Kocabaş & Aksu, 2025 - [NE]**

Common names. Merziman loach / Merziman çöpçü balığı

Distribution. Endemic. Merziman River in Euphrates drainage.

***Oxynoemacheilus sarus* Freyhof, Yoğurtçuoğlu & Kaya, 2021 - [LC]**

Common names. Sarus loach / Sarus çöpçü balığı

Distribution. Endemic. Lower Seyhan and Ceyhan drainages.

***Oxynoemacheilus seyhanensis* (Banarescu, 1968) - [LC]**

Common names. Lycaonian loach / Seyhan çöpçü balığı

Distribution. Endemic. Kızılırmak and Yeşilirmak drainages, also in upper and middle Seyhan, and in Çerkeş, in upper Filyos drainage. Recorded from Sultan Marshes, where it was introduced through the Zamantı tunnel.

***Oxynoemacheilus seyhanicola* (Erk'akan, Nalbant & Özeren, 2007) - [LC]**

Common names. Adana loach / Adana çöpçü balığı

Distribution. Endemic. Seyhan and Ceyhan drainages.

***Oxynoemacheilus simavicus* (Balik & Banarescu, 1978) - [LC]**

Common names. Mysian loach / Simav çöpçü balığı

Distribution. Endemic. Susurluk, Sakarya, and Büyük Melen drainages.

***Oxynoemacheilus theophilii* Stoumboudi, Kottelat & Barbieri, 2006 - [EN]**

Common names. Aeolian loach / Midilli çöpçü balığı

Distribution. Bakırçay drainage western Anatolia.

***Oxynoemacheilus tigris* (Heckel, 1843) - [EN]**

Common names. Halap loach / Halep çöpçü balığı

Distribution. Qweiq River drainage.

Oxynoemacheilus veyseorum* Çiçek, Eagderi & Sungur 2018 - [LC]*Common names.** Aras loach / Aras çöpçü balığı**Distribution.** Aras River drainage in northeastern Anatolia.**Note.** The species was recently described by Çiçek et al. (2018) from Stream Bozkuş, a drainage of Aras River. Jouladeh-Roudbar et al. (2020) recorded the species in Iran. Probably it is more widespread in Aras and maybe also occurs in Armenia.***Paracobitis salihae* Kaya, Turan, Kalaycı, Bayçelebi & Freyhof, 2020 - [VU]****Common names.** Euphrates crested loach / Fırat sorguçu balığı**Distribution.** Endemic. Distribution of this recently described species is poorly known and restricted in Göksu River (a drainage of Euphrates River) near Gölbaşı Adıyaman (Kaya et al., 2020c).***Paracobitis zabgawraensis* Freyhof, Esmaeili, Sayyadzadeh & Geiger, 2014 - [LC]****Common names.** Greater Zab crested loach / Dicle sorguçu balığı**Distribution.** Upper Yanarsu, Botan, Nerduş, and Greater Zab drainages, in south eastern Türkiye.***Schistura chrysicristinae* Nalbant, 1998 - [EN]****Common names.** Batman loach / Batman çöpçü balığı**Distribution.** Endemic. Ambar and Batman drainages. Probably extirpated in Ambar.***Seminemacheilus ahmeti* Sungur, Jalili, Eagderi & Çiçek 2018 - [CR]****Common names.** Sultansazlığı pond loach / Sultansazlığı pınar balığı**Distribution.** Endemic. Known from Sultan Marshes (Kayseri).***Seminemacheilus attalicus* Yoğurtçuoğlu, Kaya, Geiger & Freyhof, 2020 - [EN]****Common names.** Kirkgöz pond loach / Kirkgöz pınar balığı**Distribution.** Endemic. Known from spring Kirkgöz, in Antalya.***Seminemacheilus ekmekciae* Yoğurtçuoğlu, Kaya, Geiger & Freyhof, 2020 - [EN]****Common names.** Central Anatolian Pond loach / İnsuyu pınar balığı**Distribution.** Endemic. Known only from Lake Tuz Basin and Ereğli marshes, Central Anatolia.***Seminemacheilus ispartensis* Erk'akan, Nalbant & Özeren, 2007 - [EN]****Common names.** Southern pond loach / Isparta pınar balığı**Distribution.** Endemic. Lake Eğirdir and Salda basins and stream Beşevler near Eğirdir in northeast to Burdur basin.***Seminemacheilus lendlii* (Hankó, 1924) - [VU]****Common names.** Northern pond loach / Sakarya pınar balığı**Distribution.** Endemic. Lake Eymir-Mogan basins (Ankara), Porsuk drainage, a tributary of upper Sakarya, and Lake Akşehir, Eber, and Ilgın basins.***Seminemacheilus tubae* Yoğurtçuoğlu, Kaya, Geiger & Freyhof, 2020 - [EN]****Common names.** Golden spring loach / Altın pınar balığı**Distribution.** Endemic. Lake Beyşehir Basin (Central Anatolia) and Göksu drainage (Mediterranean Basin).**Remarks.** *Seminemacheilus dursunavsari* is a synonym.***Turcinoemacheilus ekmekciae* Kaya, Yoğurtçuoğlu, Aksu, Bayçelebi & Turan, 2023 - [LC]****Common names.** Anatolian dwarf loach / Anadolu cüce çöpçüsü**Distribution.** Endemic. Upper Murat in Euphrates, Yanarsu, Botan, Nerduş, and Batman in upper Tigris drainage.***Turcinoemacheilus kosswigi* Banareescu & Nalbant, 1964 - [CR]****Common names.** Hakkari dwarf loach / Hakkari cüce çöpçüsü**Distribution.** Endemic. Upper Greater Zab drainage.***Turcinoemacheilus minimus* Esmaeili, Sayyadzadeh, Özuluğ, Geiger & Freyhof, 2014 - [LC]****Common names.** Euphrates dwarf loach / Fırat cüce çöpçüsü**Distribution.** Endemic. Known from Göksu River and tributaries in upper Euphrates River.**FAMILY LORICARIIDAE RAFINESQUE, 1815*****Pterygoplichthys disjunctivus* x *Pterygoplichthys pardalis* - [Non-native]****Common names.** Hybrid sailfin catfish / Hibrit vatoz**Distribution.** Pınarbaşı Stream (near the town of İnönü), possibly also in Orontes.**FAMILY BAGRIDAE BLEEKER, 1858*****Mystus misrai* Anuradha, 1986 - [CR]****Common names.** Hatay zugzug / Hatay kedi balığı**Distribution.** Endemic. Lower Orontes drainage, southern Türkiye.***Mystus pelusius* (Solander, 1794) - [LC]****Common names.** Zugzug catfish / Mezopotamya kedi balığı**Distribution.** Tigris, Euphrates and Qweiq River drainages, extirpated from Qweiq.**FAMILY CLARIIDAE BONAPARTE, 1845*****Clarias* sp. - [Non-native]****Common names.** Walking catfish / Yürüyen kedibalığı**Distribution.** Pınarbaşı near İnönü in upper Sakarya River north Anatolia.**Taxonomic notes.** This species has often been misidentified as *C. batrachus*, which is actually restricted to Java, Indonesia. Records from other regions indicate the presence of distinct species or hybrids, highlighting the need for proper

identification of non-native populations (Freyhof et al., 2025a).

***Clarias gariepinus* (Burchell, 1822) - [Non-native]**

Common names. Sharptooth catfish / Kara balık

Distribution. Sakarya, Orontes, Aksu, Göksu, Seyhan, and Ceyhan River drainages in southern Anatolia.

***Heteropneustes fossilis* (Bloch, 1794) - [Non-native]**

Common names. Stinging catfish / Soka kedibalgı

Distribution. It was recorded from the Tigris River Basin (around Diyarbakır) in southeastern Anatolia. Also in brackish water.

FAMILY SILURIDAE RAFINESQUE, 1815

***Silurus glanis* Linnaeus, 1758 - [LC]**

Common names. European catfish / Yayın

Distribution. Widespread in Türkiye, except Tigris and Euphrates basins.

***Silurus triostegus* Heckel, 1843 - [LC]**

Common names. Mesopotamian catfish / Mezopotamya yayını

Distribution. Tigris and Euphrates River drainages in southeastern Anatolia.

FAMILY SISORIDAE BLEEKER, 1858

***Glyptothorax armeniacus* (Berg, 1918) - [LC]**

Common names. Euphrates torrent catfish / Fırat bodur yayını

Distribution. Upper Euphrates drainages.

***Glyptothorax cous* (Linnaeus, 1766) - [LC]**

Common names. Mesopotamian torrent catfish / Mezopotamya bodur yayını

Distribution. Qweiq, Euphrates, and Tigris drainages.

***Glyptothorax daemon* Freyhof, Kaya, Abdullah & Geiger, 2021 - [LC]**

Common names. Ghost torrent catfish / Hayalet bodur yayını

Distribution. Upper Tigris and Great Zab drainages.

***Glyptothorax kurdistanicus* (Berg, 1931) - [LC]**

Common names. Tigris torrent catfish / Vantuzlu bodur yayını

Distribution. Upper Tigris drainages.

***Glyptothorax sardashtensis* Jökar, Kamangar, Ghaderi & Freyhof, 2023**

Common names. Sardasht torrent catfish / Batman bodur yayını

Distribution. Upper Tigris drainages.

***Glyptothorax steindachneri* (Pietschmann, 1913) [NE]**

Common names. Longfin torrent catfish / Vantuzlu yayını

Distribution. Ilisu Dam reservoir (Upper Tigris) (Ünlü, 2021).

FAMILY COREGONIDAE JORDAN, 1963

***Coregonus albula* (Linnaeus, 1758) - [Non-native]**

Common names. Baltic cisco / Baltık alası

Distribution. Lake Aktaş, Eastern Anatolia.

FAMILY ESOCIDAE RAFINESQUE, 1815

***Esox lucius* Linnaeus, 1758 - [LC]**

Common names. Pike / Turna

Distribution. Akarçay, Seyhan, Kızılırmak, Sakarya, Büyük Menderes, Meriç, and Susurluk River drainages. Lake Terkos, Büyükçekmece Reservoir, and some lake drainages in Central Anatolian lake basins. Also in brackish water.

FAMILY SALMONIDAE JAROCKI OR SCHINZ, 1822

***Oncorhynchus mykiss* (Walbaum, 1792) - [Non-native]**

Common names. Rainbow trout / Gökkuşuğu alabalığı

Distribution. Not native to Türkiye. But very widespread in the inland waters of Türkiye due to escapes from fish farms.

***Salmo abanticus* Tortonese, 1954 - [VU]**

Common names. Abant trout / Abant alası

Distribution. Endemic. Lake Abant Basin, northwestern Anatolia. Introduced to several Turkish lakes (Sülüklü, Sünnet), streams (Çal, Serke), and ponds (Topardıç, Geyik, Beyderesi, Sirinyazı, Adalı, Dereçatı, Banaz, Sorgun, and Karagöl) for recreational fisheries. Not established outside of the Abant Basin.

***Salmo araxensis* Turan, Kottelat & Kaya, 2022 - [LC]**

Common names. Aras trout / Aras alası

Distribution. Endemic. Kırkpınar, Alacasu, Porsuklu, and İncilipınar in upper Aras drainage, eastern Anatolia.

***Salmo ardahanensis* Turan, Kottelat & Kaya, 2022 - [LC]**

Common names. Ardahan trout / Ardahan alası

Distribution. Endemic. Kura River drainage, eastern Anatolia.

***Salmo baliki* Turan, Aksu, Oral, Kaya & Bayçelebi, 2021 - [EN]**

Common names. Murat trout / Murat alası

Distribution. Endemic. Sinek and Cumaçay in upper Murat drainage, potentially in adjacent streams, eastern Anatolia.

***Salmo brunoi* Turan, Bayçelebi, Aksu & Oral, 2024 - [NE]**

Common names. Nilüfer trout / Nilüfer alası

Distribution. Endemic. Aras, Deliçay, and Ericek, all tributaries to Nilüfer in Susurluk drainage.

***Salmo chilo* Turan, Kottelat & Engin, 2012 - [NE]**

Common names. Ceyhan trout / Ceyhan alası

Distribution. Endemic. Göksu, Tekir, Fırın, Göçüksu, and other tributaries to upper Ceyhan and Sarız, a tributary to upper Seyhan.

***Salmo ekmekciae* Küçük, Kalaycı, Güçlü, Oral & Turan, 2024 - [EN]**

Common names. Köprüçay trout / Köprüçay alası

Distribution. Endemic. Köprüçay drainage.

***Salmo emireae* Turan, Kocabaş, Kaya, Oral Kaba & Aksu, 2025 - [NE]**

Common names. Ağrı trout / Ağrı alası

Distribution. Endemic. Lake Balık (Aras drainage) in northern Anatolia (Turan et al., 2025, in press).

***Salmo euphrataeus* Turan, Kottelat & Engin, 2014 - [LC]**

Common names. Northern Euphrates trout / Fırat alası

Distribution. Endemic. Şenyurt, Erzincan, Kuzgun, Rizekent, Ağırçık, and Sırlı (Karasu drainage) in northern Euphrates.

***Salmo fahrettini* Turan, Kalaycı, Bektaş, Kaya & Bayçelebi 2020 - [EN]**

Common names. Euphrates trout / Erzurum alası

Distribution. Endemic. Known from streams Tekke and Ömertepesuyu, upper Euphrates drainages around Erzurum, also recorded in and Terme drainage, east of Samsun, in Black Sea basin.

***Salmo kottelati* Turan, Doğan, Kaya & Kanyılmaz, 2014 - [EN]**

Common names. Alakır trout / Alakır alası

Distribution. Endemic. Stream Alakır, a coastal drainage of Mediterranean Sea, near Antalya.

***Salmo labecula* Turan, Kottelat & Engin, 2012 - [VU]**

Common names. Eastern Mediterranean trout / Seyhan alası

Distribution. Endemic. Ecemiş, lower Zamantı, and Çakıt in Seyhan drainage.

***Salmo labrax* Pallas, 1814 - [LC]**

Common names. Black Sea trout / Karadeniz alası

Distribution. Marmara and Black Sea basins. Also in marine and brackish water.

Remarks. *Salmo coruhensis* is a synonym (Ninua et al., 2023)

***Salmo munzuricus* Turan, Kottelat & Kaya, 2017 - [LC]**

Common names. Munzur trout / Munzur alası

Distribution. Endemic. Munzur and Murat in upper Euphrates drainage. Also, in Keban Reservoir and a tributary south of Keban drainage.

***Salmo murathani* Turan, Kottelat & Kaya, 2022 - [LC]**

Common names. Sarıkamış trout / Sarıkamış alası

Distribution. Endemic. Lake Çıldır, upper Aras, Keklik, Kızılçubuk, Arpaçay, and Maksutçuk in Aras drainage, eastern Anatolia.

***Salmo okumusi* Turan, Kottelat & Engin, 2014 - [LC]**

Common names. Western Euphrates trout / Gökpınar alası

Distribution. Endemic. Göksu, Lake Gökpınar Basin (in Tohma drainage), and Sürgü in Euphrates drainage.

***Salmo opimus* Turan, Kottelat & Engin, 2012 - [LC]**

Common names. Alara trout / Alara alası

Distribution. Endemic. Alara, a coastal Mediterranean drainage.

***Salmo platycephalus* Behnke, 1968 - [LC]**

Common names. Flathead trout / Yassibaş ala

Distribution. Endemic. Soğuksu, Uzunyayla, and Karagöz in upper Zamantı drainage.

***Salmo rizeensis* Turan, Kottelat & Engin, 2010 - [LC]**

Common names. Pontic brook trout / Rize alası

Distribution. The upper part of the streams and rivers of the middle and eastern Black Sea coast of Anatolia.

***Salmo sengulæ* Oral Kaba, Güçlü, Küçük, Kalaycı & Turan, 2025 - [NE]**

Common names. Berdan trout / Berdan alası

Distribution. Endemic. Known from the Berdan (a drainage of Mediterranean Sea) and İvriz (a drainage of Konya closed basin) streams (Oral Kaba et al., 2025, in press).

***Salmo tigridis* Turan, Kottelat & Bektaş, 2011 - [EN]**

Common names. Tigris trout / Dicle alası

Distribution. Endemic. Çatak and Müküs in upper Tigris drainage south of Lake Van.

***Salmo trutta* Linnaeus, 1758 - [Non-native]**

Common names. Brown trout / Kahverengi alabalık

Distribution. Two established populations of the introduced *S. trutta* were recorded in a southeastern drainage of Lake Van and one of the uppermost tributaries of Tigris River (Kaya, 2020b). Also in marine and brackish water.

***Salmo* sp. - [NE]**

Common names. Marmara trout / Marmara alası

Distribution. Endemic. Ayazma, a headwater stream in Karamenderes drainage and upper tributaries of Gönen on Biga Peninsula.

Remarks. This species was described as *S. duhani* in 2021, but the name is a nomen nudum and is not valid from the description.

FAMILY GOBIIDAE CUVIER, 1816***Babka gymnotrachelus* (Kessler, 1857) - [LC]**

Common names. Racer goby / Sarıkaya balığı

Distribution. Turkish Black Sea and Marmara drainages. Freshwater and brackish species.

***Mesogobius batrachocephalus* (Pallas, 1814) - [LC]**

Common names. Knout goby / Kurbağa kayası

Distribution. Turkish Black Sea and Marmara drainages. Also in marine and brackish water.

***Neogobius fluviatilis* (Pallas, 1814) - [LC]**

Common names. Monkey goby / Tatlısu kayabalığı

Distribution. The species is known from Marmara and Turkish Black Sea drainages. It was also recorded in a drainage of Aras River in Türkiye (Kaya et al., 2020a). Also in brackish water.

***Neogobius melanostomus* (Pallas, 1814) - [LC]**

Common names. Round goby / Kocabaş kayabalığı

Distribution. Known from Turkish Black Sea drainages. Also in brackish water.

***Ponticola constructor* (Nordmann, 1840) - [LC]**

Common names. Caucasian goby / Kafkas kayabalığı

Distribution. Çoruh River in northeast Anatolia.

***Ponticola cyrius* (Kessler, 1874) - [LC]**

Common names. Kura goby / Kura kayabalığı

Distribution. Kura River drainages in northeast Anatolia.

***Ponticola rizensis* Kovačić & Engin, 2008 - [VU]**

Common names. Colchic goby / Rize kayabalığı

Distribution. Endemic. Coastal streams draining to eastern Black Sea in northeastern Anatolia.

Remarks. *Ponticola turani* is a synonym (Freyhof et al., 2025a).

***Proterorhinus semilunaris* (Heckel, 1837) - [LC]**

Common names. Western tubenose goby / Batı tüpburunlu kayabalığı

Distribution. Marmara and Black Sea basins, and Meriç drainages. Also in brackish water.

FAMILY OXUDERCIDAE GUNTHER, 1861

***Knipowitschia byblisia* Ahnelt, 2011 - [EN]**

Common names. Köyceğiz dwarf goby / Köyceğiz kayabalığı

Distribution. Endemic. Lake Köyceğiz Basin, a small stream flowing to Gökova Bay, and lower Dalaman drainage. Also in brackish water.

***Knipowitschia caucasica* (Berg, 1916) - [LC]**

Common names. Caucasian dwarf goby / Cüce kayabalığı

Distribution. Coasts of the Black, Azov, Caspian, and Marmara Seas. Also, along the northern Aegean west the Aliakmonon drainage (Greece). Introduced in Karamanlı Reservoir, Lakes Beyşehir, Eğirdir, and Eber basins, Büyük Menderes drainage, and some places around Antalya (Türkiye). Also in marine and brackish water.

***Knipowitschia caunosi* Ahnelt, 2011 - [EN]**

Common names. Kaunos dwarf goby / Kaunos cüce kayabalığı

Distribution. Endemic. Köyceğiz Lake, southwest Türkiye.

***Knipowitschia mermere* Ahnelt, 1995 - [VU]**

Common names. Gediz dwarf goby / Gediz cüce kayabalığı

Distribution. Endemic. Lower Gediz and Madra drainages. Also in brackish water.

***Knipowitschia ricasolii* (Di Caporiacco, 1935) - [EN]**

Common names. Ephesus dwarf goby / Efes cüce kayabalığı

Distribution. Endemic. Lakes Gebekirse and Kocagöz basins and Eleman marshes in lower Küçük Menderes drainage. Also in brackish water.

Remarks. *Knipowitschia ephesi* is a synonym of this species.

***Rhinogobius* sp. - [Non-native]**

Common names. Stream goby / Nehir cüce kayabalığı

Distribution. Endemic. Aras River, very close to the Armenia border. Also in brackish water.

FAMILY SYNGNATHIDAE RAFINESQUE, 1810

***Syngnathus nigrolineatus* Risso, 1827 - [LC]**

Common names. Black Sea pipefish / Deniz iğnesi

Distribution. Coastal habitats and lower reaches of rivers in Black Sea basin. Also in marine and brackish water.

FAMILY ATHERINIDAE RISSO, 1827

***Atherina pontica* Eichwald, 1831 - [LC] [Translocated]**

Common names. Eastern sand smelt / Gümüş balığı

Distribution. Native to Aegean, Marmara, and Black Sea basins. Translocated into freshwater habitats, including Konya closed basin, reservoirs in Kızılırmak drainage, Devegeçidi Reservoir (Tigris drainage), Keban Reservoir (Euphrates drainage) and reservoirs in Levant (Ekmekçi et al., 2013; Ünlü et al., 2017). Also in marine and brackish water.

Taksonomic notes. All populations in Türkiye had been accepted as *A. boyeri*. However, recent data demonstrated that *A. boyeri* being restricted to the western Mediterranean (Freyhof et al., 2025a).

FAMILY APHANIIDAE HOEDEMAN, 1949

Freyhof & Yoğurtçuoğlu (2020) proposed separation of Aphaniidae into eight monophyletic genera: *Anatolichthys*, *Aphaniops*, *Aphanius*, *Apricaphanius*, *Kosswigichthys*, *Paraphanius*, and *Tellia*, in addition to the new genera *Esmaeilius*. According to their new proposal, in Türkiye, there are three genus (*Anatolichthys*, *Aphanius*, *Kosswigichthys*, and *Paraphanius*) which were listed below.

***Anatolichthys anatoliae* (Leidenfrost, 1912) - [VU]**

Common names. Lake Tuz killifish / Anadolu dişlisazancı

Distribution. Endemic. Lakes Tuz, Beyşehir and Suğla basins, around Konya and eastward to Niğde.

***Anatolichthys danfordii* (Boulenger, 1890) - [CR]**

Common names. Sultansazlığı killifish / Sultansazlığı dişlisazancı

Distribution. Endemic. The species known only from Sultan Marshes in Central Anatolia.

Remarks. *Cyprinodon chantrei* is a synonym.

***Anatolichthys fontinalis* Akşiray, 1948 - [EN]**

Common names. Yarıslı killifish / Yarıslı dişlisazancı

Distribution. Endemic. Karapınar Spring near Yeşilova, Düğer and Gümbet springs near Lake Yarıslı and southwest of Lake Burdur, springs in former Lake Karaevli southeast of Lake Burdur and lakes Karataş and Salda basins.

***Anatolichthys iconii* Akşiray, 1948 - [VU]**

Common names. Eğirdir killifish / Eğirdir dişlisazancı

Distribution. Endemic. Lakes Eğirdir and Kovada drainages.

***Anatolichthys irregularis* Yoğurtçuoğlu & Freyhof, 2018 - [CR]**

Common names. Kaklık killifish / Kaklık dişlisazancı

Distribution. Endemic. Known only from spring Kaklık, in Büyük Menderes drainage.

***Anatolichthys maeandricus* Akşiray, 1948 - [EN]**

Common names. Büyük Menderes killifish / Menderes dişlisazancı

Distribution. Endemic. Lake Işıklı (Denizli) and Düden Spring (Afyonkarahisar).

***Anatolichthys marassantensis* Pflieger, Geiger & Herder, 2014 - [LC]**

Common names. Kızılırmak killifish / Kızılırmak dişlisazancı

Distribution. Endemic. Kızılırmak drainage and lower and middle Yeşilirmak drainage; also in adjacent coastal wetlands west of Sinop.

***Anatolichthys meridionalis* Akşiray, 1948 - [VU]**

Common names. Lycian killifish / Likya dişlisazancı

Distribution. Endemic. Upper Eşen River drainage and Söğüt, Avlan, and Gölhisar lake basins. Also, in a small reservoir in Lake Salda basin (potentially introduced).

***Anatolichthys saldae* Akşiray, 1955 - [CR]**

Common names. Salda killifish / Salda dişlisazancı

Distribution. Endemic. Lake Salda (Burdur).

***Anatolichthys splendens* (Kosswig & Sözer, 1945) - [EX]**

Common names. Gölcük killifish / Gölcük dişlisazancı

Distribution. Endemic. Lake Gölcük in Isparta.

***Anatolichthys sureyanus* (Neu, 1937) - [EN]**

Common names. Burdur killifish / Burdur dişlisazancı

Distribution. Endemic. Lake Burdur, especially in the lake shore and spring discharge points.

***Anatolichthys transgrediens* (Ermin, 1946) - [CR]**

Common names. Acıgöl killifish / Acıgöl dişlisazancı

Distribution. Endemic. Freshwater spring system of Lake Acıgöl (Afyon-Denizli).

***Anatolichthys villwocki* Hrbek & Wildekamp, 2003 - [LC]**

Common names. Sakarya killifish / Sakarya dişlisazancı

Distribution. Endemic. Known from Lake Ilgın (Konya), a spring about 11 km east of Emirdağ (Afyonkarahisar), and upper Sakarya River drainages, Black Sea basin.

***Aphanius almiri* Kottelat, Barbieri & Stoumboudi, 2007 - [LC]**

Common names. Almiri killifish / Almiri dişlisazancı

Distribution. Tuzla Estuary and thermal springs, Lake Bafa, and coastal lagoons around İzmir (Homa Lagoon), Aegean shores of Anatolia. Also in brackish water.

***Aphanius fasciatus* (Valenciennes, 1821) - [LC]**

Common names. Mediterranean killifish / Akdeniz dişlisazancı

Distribution. Deltaic areas of Köyceğiz, Göksu, Seyhan, and Ceyhan, in a stream near İskenderun, lowermost Susurluk in Marmara Basin, Lake Bafa and perhaps elsewhere in southern Türkiye. Also in marine and brackish water.

***Kosswigichthys asquamatus* Sözer, 1942 - [EN]**

Common names. Hazer killifish / Hazar dişlisazancı

Distribution. Endemic. Lake Hazar (Elazığ).

***Paraphanius alexandri* (Akşiray, 1948) - [LC]**

Common names. İskenderun killifish / İskenderun dişlisazancı

Distribution. Endemic. Middle and upper Ceyhan drainage, Erzin drainage (Antakya), and small coastal

streams in Hatay south to Arsuz. Introduced in warm springs in upper Tohma drainage (Euphrates).

***Paraphanius boulengeri* Akşiray, 1948 - [EN]**

Common names. Gölbaşı killifish / Gölbaşı dişlisazancı

Distribution. Endemic. Lake Gölbaşı and Azaplı (Adıyaman).

***Paraphanius mentoides* Akşiray, 1948 - [EN]**

Common names. Antalya killifish / Antalya dişlisazancı

Distribution. Endemic. Yamansaz Marsh, Düden spring in Antalya, Kırkgöz Spring, and outflowing Stream Yediarıklar. It was also introduced in Lake Nemrut in Bitlis.

***Paraphanius orontis* Akşiray, 1948 - [VU]**

Common names. Asi killifish / Asi dişlisazancı

Distribution. Lake Titreyengöl in Manavgat-Antalya, and Orontes River drainages.

Note. Only recorded from Türkiye until now but expected to be also found in adjacent Syria. However, we treated this species Endemic to Türkiye until its occurrence will be confirmed in Syria.

***Paraphanius similis* Akşiray, 1948 - [LC]**

Common names. Adana killifish / Adana dişlisazancı

Distribution. Endemic. Lower Tarsus, Seyhan, and Ceyhan rivers. Also, in springs in Ereğli marshes.

FAMILY POECILIIDAE BONAPARTE, 1831***Gambusia holbrooki* Girard, 1859 - [Non-native]**

Common names. Eastern mosquitofish / Sivrisinek balığı

Distribution. *Gambusia holbrooki* is not a native species. It was first introduced into Lake Amik (Antakya) for controlling mosquitos, later widely distributed in Türkiye. Freshwater and brackish water species.

***Poecilia reticulata* Peters, 1859 - [Non-native]**

Common names. Guppy / Lepistes

Distribution. Introduced to the warm springs in upper Tohma drainage (Euphrates), middle Sakarya in Eskişehir and Ilıca in İzmir. Also in brackish water.

***Xiphophorus hellerii* Heckel, 1848 - [Non-native]**

Common names. Green swordtail / Kılıçkuyruk

Distribution. Introduced to the warm springs in the upper Tohma drainage (Euphrates). Also in brackish water.

***Xiphophorus maculatus* (Günther, 1866) - [Non-native]**

Common names. Platy / Plati

Distribution. Introduced to the warm springs in the upper Sakarya drainage.

FAMILY BLENNIIDAE RAFINESQUE, 1810***Salariopsis burcu* Yeğirtçuoğlu, Kaya, Atalay, Ekmekçi & Freyhof, 2023 - [LC]**

Common names. Eastern freshwater blenny / Akdeniz horozbinası

Distribution. Known from Antalya Bay to the Seyhan River in Türkiye.

***Salariopsis fluviatilis* (Asso, 1801) - [LC]**

Common names. Freshwater blenny / Horozbina

Distribution. Marmara, Aegean, and Western Mediterranean coasts of Türkiye. Also in Black Sea basin (Kızılırmak). A resident population of *Salariopsis fluviatilis* was identified in the upper basins of the Kızılırmak River, with the highest altitude being 753 m. (Güçlü et al., 2025c).

***Salariopsis renatorum* Yoğurtçuoğlu, Kaya, Atalay, Ekmekçi & Freyhof, 2023 - [LC]**

Common names. Ceyhan blenny / Ceyhan horozbinası

Distribution. Ceyhan and Arsuz drainages.

FAMILY CICHLIDAE BONAPARTE, 1835

***Amatitlania nigrofasciata* (Günther, 1867) - [Non-native]**

Common names. Convict cichlid / Zebra Ciklet

Distribution. Introduced to the hot springs in the upper Sakarya River drainage.

***Coptodon zillii* (Gervais, 1848) - [Non-native]**

Common names. Redbelly tilapia / Tilapya

Distribution. Introduced to Orontes, Köyceğiz, lower Dalaman, and Burdur (Pınarbaşı Spring) basins in Türkiye.

***Oreochromis aureus* (Steindachner, 1864) - [Non-native]**

Common names. Blue tilapia / Mavi tilapya

Distribution. Introduced to Orontes, Ceyhan, and Sakarya rivers in Türkiye. Also in brackish water.

FAMILY MUGILIDAE JAROCKI, 1822

***Chelon auratus* (Risso, 1810) - [NT]**

Common names. Golden mullet / Sarı kulak; Altınbaş kefal

Distribution. All lagoon and estuarine areas in Turkish sea coasts. Also in marine and brackish water.

***Chelon labrosus* (Risso, 1827) - [NT]**

Common names. Thick grey mullet / Mavri; Mavraki

Distribution. All lagoon and estuarine areas along the Turkish sea coasts. Also in marine and brackish water.

***Chelon ramada* (Risso, 1827) - [NT]**

Common names. Thinlip mullet / Pulatarina; Ceran

Distribution. All lagoon and estuarine areas along the Turkish sea coasts. Also in marine and brackish water.

***Chelon saliens* (Risso, 1810) - [NT]**

Common names. Sharpnose mullet / Kastros; Sivriburun kefal

Distribution. All lagoon and estuarine areas along the Turkish sea coasts. Also in marine and brackish water.

***Mugil cephalus* Linnaeus, 1758 - [LC]**

Common names. Striped mullet / Has kefal

Distribution. All lagoon and estuarine areas along the Turkish sea coasts. Also in marine and brackish water.

***Planiliza abu* (Heckel, 1843) - [LC]**

Common names. Abu mullet / Mezopotamya kefali

Distribution. Tigris, Euphrates, and Qweiq. Introduced to the Orontes and Ceyhan River drainages. Also in brackish water.

***Planiliza haematocheilus* (Temminck & Schlegel, 1845) - [Non-native]**

Common names. Soiyu mullet / Rus kefali

Distribution. Introduced in the Sea of Azov in the late 1960s, it reached to Black, Marmara, and Aegean Sea coasts of Türkiye. Also in marine and brackish water.

FAMILY PLEURONECTIDAE RAFINESQUE, 1815

***Platichthys flesus* (Linnaeus, 1758) - [LC]**

Common names. Flounder / Derepisi

Distribution. Marmara and Black Sea coasts of Türkiye. Also in marine and brackish water.

FAMILY MASTACEMBELIDAE SWAINSON, 1839

***Mastacembelus simack* (Walbaum, 1792) - [LC]**

Common names. Mesopotamian spiny eel / Dikenli yılan balığı

Distribution. Tigris, Euphrates, and Qweiq River drainages.

FAMILY PERCIDAE RAFINESQUE, 1815

***Gymnocephalus cernua* (Linnaeus, 1758) - [LC]**

Common names. Ruffe / Trakya levreği

Distribution. Meriç drainage northwest of Türkiye. Also in brackish water.

***Perca fluviatilis* Linnaeus, 1758 - [LC] [Translocated]**

Common names. Perch / Tatlısu levreği

Distribution. Native to Black Sea coast of Türkiye. Introduced to the Akarçay Basin and Aegean Sea Basin (Büyük Menderes and Küçük Menderes). Recently introduced into the Keban Dam (Euphrates); however, further data is needed to assess its establishment status. Also in brackish water.

***Sander lucioperca* (Linnaeus, 1758) - [LC]**

Common names. Pikeperch / Sudak

Distribution. Native to the Anatolian Black Sea watersheds. Introduced into Central Anatolia (Lakes Beyşehir and Eğirdir, and Demirköprü, Hirfanlı and Seyhan reservoirs). Also in brackish water.

FAMILY GASTEROSTEIDAE BONAPARTE, 1831

***Gasterosteus aculeatus* Linnaeus, 1758 - [LC]**

Common names. Threespined stickleback / Dikence balığı

Distribution. Locally known from some Black, Marmara and Mediterranean Sea drainages. İznik Lake, Azmak Stream (Muğla), Lake Gölhisar and Gökpinar Spring upper Dalaman River (Güçlü et al., 2021), also in coastal streams in Samsun, southern Black Sea drainages.

FAMILY CENTRARCHIDAE BLEEKER, 1859***Lepomis gibbosus* (Linnaeus, 1758) - [Non-native]**

Common names. Pumpkinseed / Güneş balığı

Distribution. Introduced populations of the species known from Gediz, Büyük and Küçük Menderes River drainages in Aegean Sea basin, Sakarya and lower Kızılırmak River drainages in Black Sea basin, Susurluk and Lake İznik drainages in Marmara Sea basin, and the upper Dalaman River in Mediterranean Sea basin. Also widespread in the Thrace Region.

FAMILY MORONIDAE JORDAN & EVERMANN, 1896***Dicentrarchus labrax* (Linnaeus, 1758) - [NT]**

Common names. Seabass / Deniz levreği

Distribution. All Turkish sea coasts. Also in marine and brackish water.

Discussion**Overall Species Richness and Endemism**

This study aimed to provide a reliable national baseline for the freshwater fishes of Türkiye, linking taxonomy with distribution and geography. Previous lists either predated the recent wave of taxonomic research or lacked consistent species selection criteria and a transparent spatial framework. Our synthesis brings these aspects together for the first time, establishing a nationwide expert consensus on which species occur in Türkiye and how they are taxonomically arranged.

Our checklist confirms that Türkiye holds a very rich and highly endemic freshwater fish fauna. The 370 native species we recognise, over half of which are endemic, place the country among the most distinctive freshwater regions in the Mediterranean. This level of endemism reflects the complex biogeographic history of Anatolia, which has acted both as a refugium during Pleistocene glaciations and as a centre of in situ diversification in isolated lake basins and mountain drainages (Oikonomou et al., 2014; Smith & Darwall, 2006). The dominance of the families Leuciscidae, Nemacheilidae and Cyprinidae, together accounting for most native species, mirrors broader Mediterranean and temperate Eurasian patterns while also highlighting regional evolutionary radiations (Crivelli, 1996; Geiger et al., 2014; Freyhof et al., 2025a; Šlechtová et al., 2025). This taxonomic concentration has important implications: the evolutionary and ecological diversity of Türkiye's freshwater fish fauna is disproportionately represented by a few lineages, making the fauna highly sensitive to declines within these groups. A disease outbreak, new invader or major habitat loss affecting one such clade could rapidly erode a large share of national diversity and ecosystem function. At the same time, this concentration means that well-designed, lineage-focused work on taxonomy, systematics and habitat protection for these key groups can deliver unusually high returns for biodiversity documentation and management at the national scale.

Checklist Assessment

The number of freshwater fish species in Türkiye has been reported to be over 400 in previous studies (409 by Çiçek et al., 2018; 427 by Çiçek et al., 2023) due to the classification of several incorrect or doubtful species under Turkish freshwater fish species. The recording of twenty extra species in the Kura and Aras drainages of Türkiye alone reveals the number of these erroneously recorded species (Kaya et al., 2020a). Table 1 lists 47 fish species that are listed among the Turkish freshwater fish species, although they are not found in Türkiye, or are no longer valid species, or although they are not freshwater fish species, or whose status has changed according to recent studies.

Freshwater fishes of Türkiye, with its 389 species, stands out among countries located in the biogeographic transition zone between Europe and Asia. Of these, 366 are native and 23 are alien species (5 of these have not established populations in nature). The very high level of endemism (199, or 53.5%) highlights Türkiye's value to the global freshwater biodiversity. The dominance by families like Leuciscidae, Cyprinidae, and Nemacheilidae in the fauna illustrates the evolutionary value of riverine assemblages to species richness determination. A significant group in this context is *Oxynoemacheilus*, the richest genus with 47 species, which is an excellent example of the high endemism in Türkiye due to geographic structure and isolation mechanisms. These results imply that endemic and sparsely distributed species should be the main targets of conservation initiatives in freshwater ecosystems of Türkiye.

One of the main discrepancies between our list and the recent checklist of Çiçek et al., (2023) relates to the number and range of freshwater fish species in Türkiye. Our list relies on current taxonomic revisions, confirmed distributional records, and verifiable reports, while Çiçek et al., (2023) appear to have given an inflated number of species, with some being of questionable occurrence or relevance to the freshwater ichthyofauna of the country. This inflation appears to originate primarily from three groups of undesired inclusions:

(i) Marine or euryhaline species that rarely attempt to brackish or freshwater, e.g., *Sprattus sprattus*, *Sardina pilchardus*, and *Pomatoschistus anatoliae*. These taxa, although occasionally observed in estuarine zones, are not considered part of Türkiye's established inland freshwater fish fauna.

(ii) Species with erroneous or outdated distribution records, taxa that have either never been confirmed from Türkiye, were reported based on misidentifications or speculative assumptions in older literature or were once recorded but later studies have clearly shown that they do not occur within the country. Examples include *Oxynoemacheilus bureschi*, *Oxynoemacheilus chomanicus*, and *Salmo caspius*, whose occurrence is not based on recent distributional records and contradicts more recent biogeographic studies.

Table 1. Species removed from freshwater fishes of Türkiye based on updated taxonomic studies

No	Species	Reason	Reference
1	<i>Alburnus attalus</i>	Synonym of <i>A. derjugini</i>	Sariahmetoğlu (2024)
2	<i>Alburnus battalgilae</i>	Synonym of <i>A. derjugini</i>	Bayçelebi <i>et al.</i> (2021) Sariahmetoğlu (2024)
3	<i>Alburnus carinatus</i>	Synonym of <i>A. derjugini</i>	Sariahmetoğlu (2024)
4	<i>Alburnus istanbulensis</i>	Synonym of <i>A. derjugini</i>	Sariahmetoğlu (2024)
5	<i>Alburnus nasreddini</i>	Synonym of <i>A. escherichii</i>	Bayçelebi <i>et al.</i> (2020)
6	<i>Alburnus nicaeensis</i>	Synonym of <i>A. derjugini</i>	Sariahmetoğlu (2024)
7	<i>Alburnus schischkovi</i>	Synonym of <i>A. derjugini</i>	Sariahmetoğlu (2024)
8	<i>Anatolichthys chantrei</i>	Synonym of <i>A. danfordii</i>	Freyhof <i>et al.</i> , (2025a)
9	<i>Benthophilus nudus</i>	Recorded by previous checklists (Çiçek <i>et al.</i> , 2015, 2020, 2023), however, no evidence provided for the occurrence in Türkiye	Freyhof (2024)
10	<i>Capoeta umbla</i>	Synonym of <i>Capoeta damascina</i>	(Kaya <i>et al.</i> , 2019, Freyhof <i>et al.</i> , 2025a).
11	<i>Chondrostoma angorense</i>	Synonym of <i>C. colchicum</i>	Küçük <i>et al.</i> , (2023)
12	<i>Chondrostoma smyrnae</i>	Synonym of <i>C. turnai</i>	Freyhof <i>et al.</i> , (2025a)
13	<i>Coptodon rendalli</i>	There is not any record with evidence in Türkiye	
14	<i>Ladigesocypris mermere</i>	Synonym of <i>Petroleuciscus smyrnaeus</i>	Freyhof <i>et al.</i> , (2025a)
15	<i>Luciobarbus barbulus</i>	Synonym of <i>L. schecjh</i>	Freyhof <i>et al.</i> , (2025b)
16	<i>Luciobarbus kersin</i>	Synonym of <i>L. schecjh</i>	Freyhof <i>et al.</i> , (2025b)
17	<i>Luciobarbus kottelati</i>	Synonym of <i>L. graecus</i>	Freyhof & Yoğurtçuoğlu (2024)
18	<i>Luciobarbus lorteti</i>	Synonym of <i>L. pectoralis</i>	Freyhof <i>et al.</i> , (2025a)
19	<i>Luciobarbus lydianus</i>	Synonym of <i>L. graecus</i>	Freyhof & Yoğurtçuoğlu (2024)
20	<i>Luciobarbus xanthopterus</i>	Synonym of <i>L. schecjh</i>	Freyhof <i>et al.</i> , (2025b)
21	<i>Oedalechilus labeo</i>	Marine species had never been recorded in freshwaters by evidence	
22	<i>Oxynoemacheilus bergi</i>	Unresolved taxonomic status; described from the Kura in Azerbaijan, but identity remains unclear and unconfirmed from type locality. Recent fieldwork failed to rediscover it. Needs revision	Freyhof <i>et al.</i> , (2021) Freyhof <i>et al.</i> , (2025a)
23	<i>Oxynoemacheilus bureschi</i>	Restricted in Europe	Ford (2024)
24	<i>Oxynoemacheilus chomanicus</i>	Recorded in Türkiye in 2016, but later these populations were described as <i>O. kentrutensis</i>	Kaya <i>et al.</i> , (2016) Freyhof <i>et al.</i> , (2017)
25	<i>Oxynoemacheilus insignis</i>	It was incorrectly recorded in Türkiye, in fact it never occurred within the borders of the country	Freyhof <i>et al.</i> , (2025a)
26	<i>Oxynoemacheilus kurdistanicus</i>	Recorded in Türkiye in 2016, but later these populations were moved to the <i>O. marunensis</i>	Kaya <i>et al.</i> , (2016) Freyhof <i>et al.</i> , (2025a)
27	<i>Oxynoemacheilus melenicus</i>	Synonym of <i>O. bergianus</i>	Freyhof <i>et al.</i> , (2025a)
28	<i>Oxynoemacheilus sakaryaensis</i>	Synonym of <i>O. bergianus</i>	Freyhof <i>et al.</i> , (2025a)
29	<i>Oxynoemacheilus samanticus</i>	Synonym of <i>O. bergianus</i>	Freyhof <i>et al.</i> , (2022)
30	<i>Pomatoschistus anatoliae</i>	An estuarine species, had never recorded in freshwaters	
31	<i>Ponticola eurycephalus</i>	Not a freshwater species in Turkish coasts	Freyhof <i>et al.</i> , (2025a)
32	<i>Ponticola ratan</i>	Not a freshwater species in Turkish coasts	Freyhof <i>et al.</i> , (2025a)
33	<i>Ponticola turani</i>	Synonym of <i>P. rizensis</i>	Freyhof <i>et al.</i> , (2025a)
34	<i>Pseudophoxinus caralis</i>	Synonym of <i>P. anatolicus</i>	Freyhof <i>et al.</i> , (2025a)
35	<i>Pseudophoxinus kervillei</i>	Synonym of <i>P. libani</i>	Bariche & Freyhof, (2016)
36	<i>Salmo caspius</i>	Turkish populations were described as three new species. Therefore, <i>S. caspius</i> remains in the lower Kura-Aras drainages	Turan <i>et al.</i> , (2022b)
37	<i>Salmo ciscaucasicus</i>	Had never been recorded in Türkiye by evidence	Turan <i>et al.</i> , (2022b)
38	<i>Salmo coruhensis</i>	Synonym of <i>S. labrax</i>	Freyhof <i>et al.</i> , (2025a)
39	<i>Sardina pilchardus</i>	Marine species had never been recorded in freshwaters by evidence	
40	<i>Sardinella aurita</i>	Marine species had never been recorded in freshwaters by evidence	
41	<i>Sprattus sprattus</i>	Marine species had never been recorded in freshwaters by evidence	
42	<i>Squalius adanaensis</i>	Synonym of <i>S. cappadocicus</i>	Freyhof <i>et al.</i> , (2025a)
43	<i>Squalius cephaloides</i>	Synonym of <i>S. cii</i>	Bayçelebi <i>et al.</i> , (2022)
44	<i>Squalius irideus</i>	Synonym of <i>Ladigesocypris ghigii</i>	Freyhof <i>et al.</i> , (2025a)
45	<i>Squalius recurvirostris</i>	Synonym of <i>S. cappadocicus</i>	Freyhof <i>et al.</i> , (2025a)
46	<i>Squalius seyhanensis</i>	Synonym of <i>S. cappadocicus</i>	Freyhof <i>et al.</i> , (2025a)
47	<i>Squalius semae</i>	Synonym of <i>S. berak</i>	Freyhof <i>et al.</i> , (2025a)

(iii) Taxa that have been invalidated or synonymized after the publication of Çiçek et al., (2023), including *Luciobarbus kottelati*, *Squalius seyhanensis*, and *Alburnus attalus*, among others. The presence of these taxa subtracts from the validity of their checklist based on current taxonomic consensus.

These discrepancies highlight the necessity for continued revision and critical evaluation of faunistic catalogs, especially in regions like Türkiye where ongoing research frequently clarifies species identities and ranges. By including taxa whose presence is doubtful or no longer of taxonomic interest, Çiçek et al., (2023) risk building an erroneous picture of freshwater fish biodiversity. Over-coverage has even conservation implications and could well divert attention and resources away from species and habitats of demonstrated ecological value. We advocate a more conservative and evidence-based national checklist policy that respects written records and excludes temporary, sea-associated, or taxonomically outdated taxa unless strongly evidenced to occur in non-marine freshwater habitats.

Ethical Statement

Not required.

Funding Information

This work was funded by the General Directorate of Fisheries and Aquaculture (BSGM), Ministry of Agriculture and Forestry of the Republic of Türkiye, through the Turkish Freshwater Fish Listing Project (Türkiye Tatlı Su Balıkları Listeleme Projesi).

Author Contribution

The first and senior authors contributed equally to the conceptualization, resources, methodology, investigation, data curation, and writing of both the original draft and the review & editing stages of the manuscript. All remaining authors contributed to data curation, validation, and writing – review & editing.

Conflict of Interest

The authors declare that they have no known competing financial or non-financial, professional, or personal conflicts that could have appeared to influence the work reported in this paper.

Acknowledgements

We would like to express our sincere gratitude to the General Directorate of Fisheries and Aquaculture (BSGM), Ministry of Agriculture and Forestry of the Republic of Türkiye, for supporting this work through the Turkish Freshwater Fish Listing Project (Türkiye Tatlı Su Balıkları Listeleme Projesi).

References

- Ağdamar, S., Saç, G., Gaygusuz, Ö., Doğaç, E., Acar, Ü., Gürsoy Gaygusuz, Ç., & Özuluğ, M. (2021). The ichthyofaunal diversity of freshwater ecosystems in Gökçeada Island (NW Turkey) under the pressure of nonnative species. *Turkish Journal of Zoology*, 45(7), 570-578. <https://doi.org/10.3906/zoo-2104-7>
- Bariche, M. & J. Freyhof. (2016). Status of *Pseudophoxinus libani* and *P. kervillei*, two minnows from the Levant (Teleostei: Cyprinidae). *Ichthyological Exploration of Freshwaters*, 27, 203-210.
- Bayçelebi, E., Turan, D., & Japoshvili, B. (2015). Fish fauna of Çoruh River and two first record for Turkey. *Turkish Journal of Fisheries and Aquatic Sciences*, 15, 777-788. https://doi.org/10.4194/1303-2712-v15_4_01
- Bayçelebi, E. (2019). Taxonomic revision of genus *Squalius* distributing in Turkey. PhD Thesis. Recep Tayyip Erdogan University, Institute of Science and Technology, Rize, Türkiye, 135 pp (in Turkish).
- Bayçelebi, E., Turan, D., Kaya, C., & Freyhof, J. (2020). *Alburnus nasreddini*, a synonym of *A. escherichii* (Teleostei: Leuciscidae). *Zootaxa*, 4894(1), 123-132. <https://doi.org/10.11646/zootaxa.4894.1.7>
- Bayçelebi, E., Turan, D., Kaya, C., & Freyhof, J. (2021). *Alburnus battalgilae*, a synonym of *A. attalus* (Teleostei: Leuciscidae). *Zootaxa*, 4999(4), 389-396. <https://doi.org/10.11646/zootaxa.4999.4.8>
- Bayçelebi, E., Turan, D., Aksu, S., & Freyhof, J. (2022). *Squalius cephaloides*, a synonym of *Squalius cii* (Teleostei: Leuciscidae). *Zootaxa*, 5174(3), 277-284. <https://doi.org/10.11646/zootaxa.5174.3.5>
- Bektas, Y., Aksu, I., Kaya, C., Bayçelebi, E., Küçük, F., & Turan, D. (2020). Molecular systematics and phylogeography of the genus *Alburnus* Rafinesque, 1820 (Teleostei, Leuciscidae) in Turkey. *Mitochondrial DNA Part A*, 31(7), 273-284. <https://doi.org/10.1080/24701394.2020.1791840>
- Bogutskaya, N. G. (1995). *Leuciscus kurui*, a new cyprinid fish from the upper Tigris (Dicle) system. *Mitteilungen aus dem hamburgischen Zoologischen Museum und Institut*, 92, 149-154.
- Çiçek, E., Sungur-Birecikligil, S., & Fricke, R. (2015). Freshwater fishes of Turkey: A revised and updated annotated checklist. *Biharean Biologist*, 9(2), 141-157.
- Çiçek, E., Fricke, R., Sungur, S., & Eagderi, E. (2018). Endemic freshwater fishes of Turkey. *FishTaxa*, 3(4), 1-39.
- Çiçek, E., Sungur, S., & Fricke, R. (2020). Freshwater lampreys and fishes of Turkey; a revised and updated annotated checklist. *Zootaxa*, 4809(2), 241-270. <https://doi.org/10.11646/zootaxa.4809.2.2>
- Çiçek, E., Eagderi, S., & Sungur, S. (2021). *Schizothorax prophylax* (Pietschmann, 1933) and *Capoeta mauricii* Küçük, Turan, Şahin & Güllü, 2009, junior synonyms of *Capoeta pestai* (Pietschmann, 1933) (Teleostei, Cyprinidae). *Spixiana*, 44(2), 203-208.
- Çiçek, E., Sungur, S., Fricke, R., & Seçer, B. (2023). Freshwater lampreys and fishes of Türkiye; an annotated checklist, 2023. *Turkish Journal of Zoology*, 47(6), 324-468. <https://doi.org/10.55730/1300-0179.3147>
- Ekmeççi, F. G., Kirankaya, Ş. G., Gençoğlu, L., & Yoğurtcuoğlu, B. (2013). Türkiye içsularındaki istilacı balıkların güncel durumu ve istilanın etkilerinin değerlendirilmesi. *İstanbul Üniversitesi Su Ürünleri Dergisi*, 28, 105-140.
- Ford, M. (2024). *Oxynoemacheilus bureschi*. *The IUCN Red List of Threatened Species* 2024: e.T39288A137279640.

- <https://dx.doi.org/10.2305/IUCN.UK.20242.RLTS.T39288A.137279640.en>. Accessed on 01 June 2025.
- Freyhof, J., Kaya, C., & Turan, D. (2017). *Oxynoemacheilus kentritensis*, a new species from the upper Tigris drainage in Turkey with remarks on *O. frenatus* (Teleostei: Nemacheilidae). *Zootaxa*, 4258(6), 551-560. <https://doi.org/10.11646/zootaxa.4258.6.4>
- Freyhof, J., Bayçelebi, E., & Geiger, M. (2018). Review of the genus *Cobitis* in the Middle East, with the description of eight new species (Teleostei: Cobitidae). *Zootaxa*, 4535(1), 1-75. <https://doi.org/10.11646/zootaxa.4535.1.1>
- Freyhof, J., Kaya, C., Turan, D. & Geiger, M. (2019) Review of the *Oxynoemacheilus tigris* group with the description of two new species from the Euphrates drainage (Teleostei: Nemacheilidae). *Zootaxa*, 4612(1), 29-57. <https://doi.org/10.11646/zootaxa.4612.1.2>
- Freyhof, J., Kaya, C., & Ali, A. (2021). A critical checklist of the inland fishes native to the Euphrates and Tigris drainages. In: Jawad, L.A. (eds) *Tigris and Euphrates Rivers: Their Environment from Headwaters to Mouth*. Aquatic Ecology Series, vol 11. Springer, Cham. https://doi.org/10.1007/978-3-030-57570-0_35
- Freyhof, J., Kaya, C., & Geiger, M. F. (2022). A practical approach to revise the *Oxynoemacheilus bergianus* species group (Teleostei: Nemacheilidae). *Zootaxa*, 5128(2), 151-194. <https://doi.org/10.11646/zootaxa.5128.2.1>
- Freyhof, J. (2024). *Benthophilus nudus*. The IUCN Red List of Threatened Species 2024: e.T135604A137228160. <https://dx.doi.org/10.2305/IUCN.UK.2024-2.RLTS.T135604A137228160.en>. Accessed on 01 June 2025.
- Freyhof, J. & Yoğurtçuoğlu, B. (2024). *Luciobarbus lydianus* and *L. kottelati*, two synonyms of *L. graecus* (Teleostei: Cyprinidae). *Zootaxa*, 5415(3), 466-476.
- Freyhof, J., Yoğurtçuoğlu, B., Jouladeh-Roudbar, A., & Kaya, C. (2025a). *Handbook of freshwater fishes of West Asia*. DeGruyter Publications.
- Freyhof, J., Segherloo, I. H., Vatandoust, S., Abdollahi-Mousavi, S. E., Normandeau, E., Geiger, M. F., & Yoğurtçuoğlu, B. (2025b). Resolving a 182-year-old taxonomic puzzle: *Luciobarbus* in the Persian Gulf basin (Teleostei: Cyprinidae). *Zootaxa*, 5620(1), 29-71.
- Fricke, R., Bilecenoglu, M., & Sari, H. M. (2007). Annotated checklist of fish and lamprey species (Gnathostomata and Petromyzontomorphi) of Turkey, including a Red List of threatened and declining species. *Stuttgarter Beiträge zur Naturkunde, Serie A (Biologie)*, 706, 1-172.
- Gaygusuz, Ö., Akdemir, D., Tarkan, A. S., & Acipinar, H. (2009). Threatened fishes of the world: *Hemigrammocapoeta kemali* Hankó, 1924 (Cyprinidae). *Environmental Biology of Fishes*, 84, 339-340. <https://doi.org/10.1007/s10641-008-9424-9>
- Geiger, M. F., Herder, F., Monaghan, M. T., Almada, V., Barbieri, R., Bariche, M., Berrebi, P., Bohlen, J., Casal-Lopez, M., Delmastro, G. B., Denys, G. P. J., Dettai, A., Doadrio, I., Kalogianni, E., Kärst, H., Kottelat, M., Kovačić, M., Laporte, M., Lorenzoni, M., Marčić, Z., Özüluğ, M., Perdices, A., Perea, S., Persat, H., Porcelotti, S., Puzzi, C., Robalo, J., Šanda, R., Schneider, M., Šlechtová, V., Stoumboudi, M., Walter, S., & Freyhof, J. (2014). Spatial heterogeneity in the Mediterranean Biodiversity Hotspot affects barcoding accuracy of its freshwater fishes. *Molecular Ecology Resources*, 14, 1210-1221.
- Geldiay, R. & Balık, S. (2007). *Türkiye Tatlısu Balıkları* (6th ed.). Ege Üniversitesi Su Ürünleri Fakültesi Yayınları, İzmir (in Turkish).
- Güçlü, S. S., Yıldırım, U. G., İnnal, D., & Özmen, O. (2021). *Schistocephalus solidus* (Cestoda: Ligulidae) infection characteristics and pathology at the highest elevation record environment (Dalaman River Basin, Turkey). *Journal of Advanced Parasitology*, 8(3), 32-36. <http://dx.doi.org/10.17582/journal.jap/2021/8.3.32.36>
- Güçlü, S. S., Kaymak, N., & Kalaycı, G. (2025a). First record of the doctor fish in Antalya (Türkiye) outside its natural distribution range: Taxonomic identity and potential ecological risks. *Zoology in the Middle East*, 71(4), 407-416. <https://doi.org/10.1080/09397140.2025.2562615>
- Güçlü, S. S., Küçük, F., Yıldırım, U., Bahrioglu, E., & Şavran, G. (2025b). Ilıca Deresi (Manavgat-Antalya), *Garra turcica* (Cyprinidae)'nın Yeni Üssü mü oluyor?: Popülasyon Dinamiklerine İlk Bakış. 23. *Su Ürünleri Sempozyumu*, Elazığ, Abstract Book. p. 56.
- Güçlü, S. S., Gaffaroğlu, M., & Karasu, A. M. (2025c). The highest altitude occurrence of *Salariopsis fluviatilis* (Teleostei: Blenniidae) detected so far: Kızılırmak River–Black Sea basin (North of Türkiye). *Oceanological and Hydrobiological Studies*, 54(2), 88–98. <https://doi.org/10.26881/oahs-2025.1.08>
- Giannetto, D. & İnnal, D. (2021). Status of endemic freshwater fish fauna inhabiting major lakes of Turkey under the threats of climate change and anthropogenic disturbances: A review. *Water*, 13(11), 1534. <https://doi.org/10.3390/w13111534>
- Jouladeh-Roudbar, A., Ghanavi, H. R., & Doadrio, I. (2020). Ichthyofauna from Iranian freshwater: Annotated checklist, diagnosis, taxonomy, distribution and conservation assessment. *Zoological Studies*, 59, e21.
- İlhan, A., Sarı H. M., Kurtul, I., & Akçalı, M. (2020). Actual situation of Meriç River's fish fauna and assessment of possible impacts of alien species on native species. *LimnoFish*, 6(1), 75-87. <https://doi.org/10.17216/LimnoFish.504512>
- İlhan, A., Saç, G., Gaygusuz, Ö., Akalın, S., Topkara, E. T., İlhan, D., Gürsoy Gaygusuz, Ç., & Sarı, H. M. (2024). Fish species composition and seasonal variations in Lake Sapanca and its tributaries. *Ege Journal of Fisheries and Aquatic Sciences*, 41(4), 286-294. <https://doi.org/10.12714/egejfas.41.4.05>
- Kaya, C., Turan, D., & Ünlü, E. (2016). The latest status and distribution of fishes in upper Tigris River and two new records for Turkish freshwaters. *Turkish Journal of Fisheries and Aquatic Sciences*, 16, 545-562. https://doi.org/10.4194/1303-2712-v16_3_07
- Kaya, C. (2019). Taxonomic revision of the species belong to genus *Capoeta* distributed in Turkey. PhD Thesis. Recep Tayyip Erdogan University, Institute of Science and Technology, Rize, Turkey, 126 pp.
- Kaya, C., Küçük, F., & Turan, D. (2019). New data on the distribution and conservation status of the two Endemic scrapers in the Turkish Mediterranean Sea drainages (Teleostei: Cyprinidae). *International Journal of Zoology and Animal Biology*, 2(9), 1-7.
- Kaya, C. (2020a) New record of three freshwater fish species from a western drainage of Lake Urmia for the Turkish fauna. *Ege Journal of Fisheries and Aquatic Sciences*, 37(4), 325-328. <https://doi.org/10.12714/egejfas.37.4.01>
- Kaya, C. (2020b). The first record and origin of *Salmo trutta* populations established in the upper Tigris river and Lake Van basin, eastern Anatolia (teleostei: salmonidae). *Journal of Anatolian Environmental and Animal Sciences*, 5(3), 366-372. <https://doi.org/10.35229/jaes.777575>
- Kaya, C., Bayçelebi, E., & Turan, D. (2020a). Taxonomic assessment and distribution of fishes in upper Kura and Aras river drainages. *Zoosystematics and Evolution*, 96(2), 325-344. <https://doi.org/10.3897/zse.96.52241>

- Kaya, C., Turan, D., Bayçelebi, E., Kalaycı, G., & Freyhof, J. (2020b). *Oxynoemacheilus cilicicus*, a new nemacheilid loach from the Göksu River in southern Anatolia (Teleostei: Nemacheilidae). *Zootaxa*, 4808(2), 284-300. <https://doi.org/10.11646/zootaxa.4808.2.3>
- Kaya, C., Turan, D., Kalaycı, G., Bayçelebi, E., & Freyhof, J. (2020c). The westernmost known population of *Paracobitis* (Teleostei, Nemacheilidae), with the description of a new species from the Euphrates River in southern Anatolia. *Zootaxa*, (4), 525-534. <https://doi.org/10.11646/zootaxa.4838.4.6>
- Kaya, C., Bayçelebi, E., & Turan, D. (2021). Illustrated type specimens catalogue of Recep Tayyip Erdogan University Zoology Museum of the Faculty of Fisheries. *Zootaxa*, 4996(3), 401-442.
- Kaya, C., Kurtul, I., Bayçelebi, E., İlhan, A., & Sarı, H. (2024). Actual distributions and validity of *Petroleuciscus* spp., with the range extension and length-weight relationship data in case of *Petroleuciscus ninae*. *Turkish Journal of Fisheries and Aquatic Sciences*, 24(2). <https://doi.org/10.4194/TRJFAS23846>
- Kaya, C., Saç, G., Hubert, N., Minaz, M., & Kurtul, I. (2025). Post-2000 milestones in freshwater fish taxonomy: a comprehensive review of newly described species in Türkiye. *Zoosystematics and Evolution*, 101(3), 1309-1324. <https://doi.org/10.3897/zse.101.158479>
- Khaefi, R., Esmaili, H.R., Geiger, M. F., & Eagderi, S. (2017). Taxonomic review of the cryptic *Barbus lacerta* species group with description of a new species (Teleostei: Cyprinidae). *FishTaxa*, 2(2), 90-115.
- Kuru, M. (2004). Türkiye içsu balıklarının son sistematik durumu. *Gazi Üniversitesi Gazi Eğitim Fakültesi Dergisi*, 24(3). (in Turkish)
- Kuru, M., Yerli, S.V., Mangit, F., Ünlü, E., & Alp, A. (2014). Fish Biodiversity in Inland Waters of Turkey. *Journal of Academic Documents for Fisheries and Aquaculture*, 1(3), 93-120.
- Küçük, F. & İkiz, R. (2004). Antalya Körfezi'ne dökülen akarsuların balık faunası. *Su Ürünleri Dergisi*, 21(3), 287-297.
- Küçük, F., Güçlü, S. S., & Güllü, İ. (2020). The change of Manavgat River (Antalya, Turkey) fish fauna in a quarter-century. *Acta Aequatica Turcica*, 16(4), 433-446.
- Küçük, F., Çiftçi, Y., Güçlü, S. S., Mutlu, A. G., & Turan, D. (2023). Taxonomic review of the *Chondrostoma* (Teleostei, Leuciscidae) species from inland waters of Turkey: an integrative approach. *Zoosystematics and Evolution*, 99(1), 1-13. <https://doi.org/10.3897/zse.99.91275>
- Küçük, F., Güçlü, S. S., Güllü, İ., & Kalaycı, G. (2024). A new population record and habitat assessment of the endemic fish species *Pseudophoxinus battalgilae* (Teleostei: Leuciscidae) from Central Anatolia. *Turkish Journal of Bioscience and Collections*, 8(1), 17-25.
- Liao, T. Y., Unlu, E., & Kullander, S. O. (2011). Western boundary of the subfamily Danioninae in Asia (Teleostei, Cyprinidae): derived from the systematic position of *Barilius mesopotamicus* based on molecular and morphological data *Zootaxa*, 2880, 31-40. <https://doi.org/10.11646/zootaxa.2880.1.3>
- Mangit, F. & Yerli, S. V. (2018). Systematic evaluation of the genus *Alburnus* (Cyprinidae) with description of a new species. *Hydrobiologia*, 807(1), 297-312.
- Myers, N., Mittermeier, R. A., Mittermeier, C. G., Da Fonseca, G. A., & Kent, J. (2000). Biodiversity hotspots for conservation priorities. *Nature*, 403(6772), 853-858. <https://doi.org/10.1038/35002501>
- Ninua, L., Tarkhishvili, D., & Anderson, C. L. (2023). Genetic structure of Ponto-Caspian trout populations shows gene flow among river drainages and supports resident *Salmo rizeensis* as a genetically distinct taxon. *Ecology and Evolution*, 13(7), e10335.
- Oikonomou, A., Leprieux, F., & Leonardos, I. D. (2014). Biogeography of freshwater fishes of the Balkan Peninsula. *Hydrobiologia*, 738(1), 205-220.
- Oral Kaba, M., Güçlü, S. S., Küçük, F., Kalaycı, G., & Turan, D. (2025, in press). Genome-wide SNP data and integrated morphology reveal a new trout species from İvriz and Berdan streams, Türkiye. *Zoological Studies*.
- Perdices, A., Ozeren, C. S., Erkakan, F., & Freyhof, J. (2018). Diversity of spined loaches from Asia Minor in a phylogenetic context (Teleostei: Cobitidae). *PLoS One*, 13(10), e0205678. https://www.pfeil-verlag.de/wp-content/uploads/2015/05/ief22_2_02.pdf
- Saç, G., Özuluğ, M., Geiger, M. F., & Freyhof, J. (2019a). *Pseudophoxinus cilicicus*, a new spring minnow from southern Anatolia (Teleostei: Leuciscidae). *Zootaxa*, 4671(1). <https://doi.org/10.11646/zootaxa.4671.1.8>
- Saç, G., Özuluğ, M., Elp, M., Gaffaroğlu, M., Ünal, S., Ayata, M. K., Kaya, C., & Freyhof, J. (2019b). New records of *Pseudophoxinus firati* from Turkey (Teleostei: Leuciscidae). *Journal of Applied Ichthyology*, 35(3), 769-774.
- Saç, G., Gaygusuz, Ö., Dorak, Z., Köker, L., Aydın, F., Akcaalan, R., & Albay, M. (2025). Fish community dynamics in a water-stressed ecosystem: a case study from the endorheic basin in the semi-arid Mediterranean region. *Reviews in Fish Biology and Fisheries*, 35, 1317-1334. <https://doi.org/10.1007/s11160-025-09959-2>
- Sariahmetoğlu, A. (2024). Türkiye'nin Marmara Denizi ve Karadeniz havzalarında yayılış gösteren *Alburnus Rafinesque* 1820 cinsinin taksonomik açıdan incelenmesi. Master thesis. Recep Tayyip Erdogan University, Institute of Science and Technology, Rize, Turkey, 33 pp.
- Šlechtová, B. V., Dvořák, T., Freyhof, J., Kottelat, M., Levin, B., Golubtsov, A., Šlechtá, S., & Bohlen, J. (2025). Reconstructing the phylogeny and evolutionary history of freshwater fishes (Nemacheilidae) across Eurasia since early Eocene. *eLife*, 13, RP101080 <https://doi.org/10.7554/eLife.101080.3>
- Smith, K. G. & Darwall, W. R. (Eds.). (2006). *The status and distribution of freshwater fish endemic to the Mediterranean Basin* (Vol. 1). IUCN.
- Turan, D., Kaya, C., Ekmekçi, F. G., & Güçlü, S. S. (2013) *Alburnoides manyasensis* (Actinopterygii, Cyprinidae), a new species of cyprinid fish from Manyas Lake basin, Turkey. *ZooKeys*, 276(276), 85-102. <https://doi.org/10.3897/zookeys.276.4107>
- Turan, D., Bektaş, Y., Kaya, C., & Bayçelebi, E. (2016). *Alburnoides diclensis* (Actinopterygii: Cyprinidae), a new species of cyprinid fish from the upper Tigris River, Turkey. *Zootaxa*, 4067(1), 79-87.
- Turan, D., Küçük, F., Kaya, C., Güçlü, S. S., & Bektaş, Y. (2017). *Capoeta aydinensis*, a new species of scraper from southwestern Anatolia, Turkey (Teleostei: Cyprinidae). *Turkish Journal of Zoology*, 41(3), 436-442. <https://doi.org/10.3906/zoo-1510-4>
- Turan, D., Kaya, C., Bayçelebi, E., Aksu, I., & Bektaş, Y. (2018). Description of *Gobio fahrettini*, a new gudgeon from Lake Ilgın basin, Central Anatolia (Teleostei: Gobionidae). *Ichthyological Exploration of Freshwaters*, 1-9.
- Turan, D. & Bayçelebi, E. (2019). Range extension of *Gobio microlepidotus* Battalgil, 1942 in the southern Anatolia (Pisces: Cyprinidae). *Journal of Anatolian Environmental and Animal Sciences*, 4(2), 156-160.

- Turan, D., Kaya, C., Kalaycı, G., Bayçelebi, E., & Aksu, İ. (2019). *Oxynoemacheilus cemali*, a new species of stone loach (Teleostei: Nemacheilidae) from the Çoruh River drainage, Turkey. *Journal of Fish Biology*, 94(3), 458-468. <https://doi.org/10.1111/jfb.13909>
- Turan, D., Küçük, F., Güçlü, S. S., & Aksu, İ. (2021). *Turcichondrostoma*, a new genus for the Leuciscidae (Teleostei: Cypriniformes) from Southwestern Anatolia. *Journal of Fish Biology*, 99, 1968–1977.
- Turan, D., Kaya, C., Aksu, İ., & Bektaş, Y. (2022a). *Paracapoeta*, a new genus of the Cyprinidae from Mesopotamia, Cilicia and Levant (Teleostei, Cypriniformes). *Zoosystematics and Evolution*, 98(2), 201-212. <https://doi.org/10.3897/zse.98.81463>
- Turan, D., Kottelat, M., & Kaya, C. (2022b). The trouts of the upper Kura and Aras rivers in Turkey, with description of three new species (Teleostei: Salmonidae). *Zootaxa*, 5150(1), 43-64. <https://doi.org/10.11646/zootaxa.5150.1.2>
- Turan, D., Kocabaş, M., Kaya, C., Oral Kaba, M. & Aksu, İ. (2025, in press). *Salmo emireae* (Salmoniformes, Salmonidae), a new trout species from the Lake Balık, Northeastern Türkiye. *Environmental Biology of Fishes*.
- Ünlü, E., Çiçek, T., Değer, D., & Coad, B. W. (2011). Range extension of the exotic Indian stinging catfish, *Heteropneustes fossilis* (Bloch, 1794) (Heteropneustidae) into the Turkish part of the Tigris River watershed. *Journal of Applied Ichthyology*, 27(1), 141-143. <https://doi.org/10.1111/j.1439-0426.2010.01580.x>
- Ünlü, E., Gaygusuz, Ö., Çiçek, T., Bilici, S., & Coad, B. W. (2017). New record and range extension of the big scale sand smelt *Atherina boyeri* Risso 1810 Atherinidae in the Devegeçidi Dam Lake Tigris River basin Turkey. *Journal of Applied Ichthyology*, 33, 63-68. <https://doi.org/10.1111/jai.13192>
- Ünlü, E. (2021). Fish fauna of Ilisu area on the Tigris River before impoundment of the Ilisu Dam (Turkey). *Transylvanian Review of Systematical & Ecological Research*, 23(3), 73-86. <https://doi.org/10.2478/trser-2021-0020>
- Van der Laan, R. (2017). *Freshwater Fish List*. 23rd edition, ISSN: 2468-9157, Almere, The Netherlands, 997 pp
- Yoğurtçuoğlu, B., Ekmekçi, F. G., Bektaş, Y., Aksu, İ., & Turan, D. (2018). The first record of *Garra kemali* (Teleostei: Cyprinidae) from the Black Sea basin with a re-description of the species. *Ichthyological Exploration of Freshwaters*, 28(3), 281.
- Yoğurtçuoğlu, B., Kaya, C., Geiger M. F., & Freyhof, J. (2020). Revision of the genus *Seminemacheilus*, with the description of three new species (Teleostei: Nemacheilidae). *Zootaxa*, 4802, 477-501. <https://doi.org/10.11646/zootaxa.4802.3.5>
- Yoğurtçuoğlu, B., Kaya, C., & J. Freyhof, (2022). Revision of the *Oxynoemacheilus angorae* group with the description of two new species (Teleostei: Nemacheilidae). *Zootaxa*, 5133, 451-485. <https://doi.org/10.11646/zootaxa.5133.4.1>