Article

Freshwater fish fauna of Tamil Nadu, India

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Abstract

A systematic, updated checklist of freshwater fish species of Tamil Nadu consist of 226 species representing 13 orders, 34 families and 93 genera. The top order with diverse species composition was cypriniformes with 125 species, 39 genera and four families. Cyprinidae contributed 48.89 % to total freshwater fishes of Tamil Nadu. Tamil Nadu constitutes about 43.11 % to the endemic freshwater fishes of India and 40.09 % to the total endemic fish diversity of Western Ghats of India. The trophic level of freshwater fishes of Tamil Nadu ranged from 2.0 to 4.5 containing 45.37 % of mid-level to high level carnivores. Assessment of the fishery status of freshwater fishes of Tamil Nadu revealed existence of 132 species worth for capture fishery, 132 species worth for ornamental fishery, 50 species worth for culture fishery and 28 species worth for gamefish fishery. Selective breeding and ranching of native fish species may help to overcome the difficulties of species endangerment. Collection of fishes from wild to develop the brood stock for captive breeding, seed production, experimental aquaculture of fast growing fishes and colourful fishes for aquarium purposes could be potential source of income in the rural areas of Tamil Nadu.

Keywords freshwater fish fauna;, endemism; trophic level; fishery status; Tamil Nadu; India.

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1 Introduction

Tamil Nadu is rich in the variety of freshwater resources (3.08 lakh ha) in the form of streams, rivers, canals (7400 kilometers), major reservoirs (52000 ha), Big or small Irrigation tanks (98000 ha), small lakes and rural fishery demonstration tanks (158000 ha) and cold water lakes and reservoirs. The east side of Western Ghats in Tamil Nadu starts from Gudalur taluk in the Nilgiris District and ends at Agatheeswaram taluk in Kanyakumari district with three important rivers Cauvery, Vaigai and Tambiraparani traveling through this region (Government of Tamilnadu, 2015). Rivulets and rivers originating from Western Ghats has been conferred with diverse fish fauna (Indra and Devi, 1990; Arunachalam, 2000; Devi and Indra, 2000; Devi et al.,

2009; Johnson and Arunachalam, 2009), has become the geographic focus of attention for ichthyologists and conservation biologists. The fish diversity of rivers and reservoirs in Western Ghats region of Tamil Nadu were studied by Indra and Devi (1990), Arunachalam (2000), and Johnson and Arunachalam (2009).

Jerdon (1849) was the first to describe fishes of Tamil Nadu. The studies on the River systems of Tamil Nadu were made by Raj (1916), Misra (1938), Rajan (1955), Jayaram et al. (1982), Indra and Devi (1990), Indra (1991), Devi (1992), Devi (1992a), Devi (1992b), Indra (1992), Bai (1993), Indra (1994), Arunachalam and Johnson (1999), Arunachalam and Sankaranarayanan (1999), Arunachalam et al. (1999), Balasundaram et al. (1999), Devi and Indra (1999), Devi and Raghunathan (1999), Indra and Bai (1999), Arunachalam (2000), Balasundaram et al. (2001), Devi et al. (2007), Johnson and Arunachalam (2009), Knight et al. (2012), Ng (2013) and Ramanujam (2015). Studies on specific ecosystems of Tamil Nadu were made by Devi (1992a), Devi (1992b), Arunachalam and Sankaranarayanan (1999), Arunachalam and Manimekalan (2000), Devi et al. (2007), and Dhinakaran et al. (2011). The major studies on the reservoirs, tanks or lakes of Tamil Nadu were made by Raj (1916), Sreenivasan (1976), Indra and Devi (1990), Indra (1991), Indra (1992), Indra (1992a), Sreenivasan (1998), Balasundaram et al. (1999), Devi and Raghunathan (1999), Devi and Raghunathan (1999a), Daniels and Rajagopal (2004), Raghunathan et al. (2005), Knight (2010), Knight and Devi (2010) and Ramanujam et al. (2014).

The available information on freshwater fishes of Tamil Nadu is scattered in published literature and so far attempt to document the freshwater fish fauna of Tamil Nadu at one place were Devi and Indra (2000), Devi et al. (2009) and Mogalekar and Jawahar (2015). Since the publications by Devi and Indra (2000), Devi et al. (2009) and Mogalekar and Jawahar (2015) on freshwater ichthyofauna of Tamil Nadu, numerous changes in taxonomy and / or systematic placement of species took place and several species of freshwater fishes in Tamil Nadu has been recorded. Considering the urgent need of an elaborate account on this subject, an attempt was made to document freshwater fish species found in Tamil Nadu based on the published literature as described in Table 1. The present contribution is intended to fill the information gap on freshwater fish species by providing restructured information on species composition of freshwater fishes from various localities of Tamil Nadu at one place for conservation, management and sustainable utilization of fishery resources.

2 Methodology

The list of the freshwater fishes from different localities of Tamil Nadu was compiled based on extensive surveys and examination of the old publications (Table 1). The Classification of the freshwater fishes of Tamil Nadu along with their endemic or exotic status, common names, habitat, trophic level, maximum size, fishery information and references for reported locality has been illustrated in present communication (Table 2). Classification of all taxa follows the Catalogue of Fishes of the California Academy of Sciences (Eschmeyer et al. 2017) and published recent taxonomic reviews (Harant and Bohlen, 2010; Pethiyagoda et al., 2012; Kottelat, 2013; Knight et al., 2013; Ali et al., 2014; Singer and Page, 2015). Details on the endemic status of fishes was collected from Karmakar and Das (2005) and Dahanukar and Raghavan (2013). Orders are treated in an alphabetical sequence and within families, genera and species are treated in an alphabetical sequence. The information on trophic level and maximum size of the species was retrieved from the fishbase (Froese and Pauly 2013). The list of cultivable fishes is prepared based on growth rate and maximum size of the species, acceptance by local people and discussion with fishermen's from southern Tamil Nadu. The list of ornamental fishes is prepared based on coloration pattern, shape and maximum size.

3 Results and Discussion

The present communication discusses on the systematic position, endemic or exotic status, common names, habitat, trophic level, maximum size, fishery information of the freshwater fishes of Tamil Nadu and references for reported locality (Table 2). Streams, tributaries and rivers explored for fish biodiversity assessment in Tamil Nadu were Cooum and Adyar rivers, Bhavani and Moyar rivers, Periyar River, Amaravathi river, Cauvery river basin, Vaigai river basin, Palar river and its tributaries, Pachaiyar, Netterikal, Nambiyar and Kodumudiar rivers, Keelmanimuthar river and its tributaries, Arjuna river, a small tributary of river Vaippar, Gadana river and its tributaries, Chittar river and its tributaries, Tamiraparani river basin, Pennaiyar river systems, Aliyar, Kallar, Sholayar, Italiar, Chinnar, Periyar, Varagalaiyar, Palar, Nirar, Kurumalayar and Vandaiyar streams from Indira Gandhi Wildlife Sanctuary. Reservoirs, tanks or lakes explored for fish biodiversity assessment in Tamil Nadu were Sembarambakkam and Red Hills tanks, Grand Anicut, Stanley / Mettur, Bhavanisagar, Sathanur, Amaravathy, Tirumoorthy, Aliyar, Krishnagiri, Amaravathi, Sholayar, Nirar, Sandynulla reservoirs, Vaigai and Sathiar Dams, Chinnar, Krishnagiri and Pambar dams, Kodaikanal Lake and Berijam Lake and Chembarampakkam Lake (Table 1).

Table 1 Some of the important reports on Freshwater fishes of Tamil Nadu.

Collectors of Freshwater Fishes	Reported Locality of Fishes	Species (No.)
Raj (1916)	Cooum and Adyar rivers and ponds within the municipal limits of the Madras (Chennai) city; Sembarambakkam and Red Hills tanks	44
Misra (1938)	Shevaroy Hills, Chitteri Range Hills, Javadi Hills, Yelagiri Hills and Den Kani Kota Range from the Eastern Ghats	36
Rajan (1955)	Bhavani and Moyar rivers and some of their tributeries in Nilgiri Hills	48
Sreenivasan (1976)	Stanley / Mettur, Bhavanisagar, Sathanur, Amaravathy, Tirumoorthy, Krishnagiri, Sandynulla reservoirs	28
Jayaram et al. (1982)	Stretch of the Cauvery in Tamil Nadu from Kaveripattinam to Hogenaikal	76
Indra and Devi (1990)	Molayar River, Vazhathopu, Valliyathuruthy, Manakavala, Nellikkamparai, Dam site, Anguruli, Cheriyakaniyam, East of Boat landing, East and West Edapalayam, Periyar house and Periyar River lower camp from Thekkady Wildlife Reserve, Western Ghats	18
Indra (1991)	Vaigai and its tributaries such as Theni, Surali and Moolar in Madurai district; Kodaikanal Lake and Berijam Lak in Anna District; Vaigai and Sathiar Dams in Madurai	32
Devi (1992)	Cheyyar rive tributaries of Palar river from Javadi Hills in North Arcot district	14
Devi (1992a)	Pachaiyar, Netterikal, Nambiyar and Kodumudiar rivers; Keelmanimuthar river and its tributaries, Kulirattiar and Kusanguliar from Kalakad Wildlife Sanctuary, Tirunelveli district	18
Devi (1992b)	Pachaiyar, Netterikal, Nambiyar and Kodumudiar rivers; Keelmanimuthar river and its tributaries, Kulirattiar and Kusanguliar from Kalakad Wildlife Sanctuary, Tirunelveli district	1
Indra (1992)	Ponds, streams, rivers and reservoirs of Kanyakumari district	41
Indra (1992a)	Waterfalls and Lakes on the Western Ghat border (eastern facing), dams and reservoirs built across Arjuna river, a small tributary of river Vaippar in Kamarajar District and river Vaigai in Pasumpon district	19
Bai (1993)	Cooum river	13
Devi and Ilango (1993)	Semi-barren wastelands form Pudukkottai district	19
Indra (1994)	River Cauvery at Tanjavur, Mayanur, Trichy, Musiri, Kulithalai, Papanasam and Ammaiappan	48
Sreenivasan (1998)	Mettur dam, Salem district	25
Arunachalam and Johnson (1999)	Cauvery, Bhavani and Moyar Rivers	1
Arunachalam and Sankaranarayanan (1999)	Gadana river, with its tributaries, Pampar, Kallar and Iluppaiyar rivers in Kalakad Mundanthurai Tiger Reserve, sub-basin in the Tamiraparani river basin	30
Arunachalam et al. (1999)	Riverine wetland of Tamiraparani river at Thimarajapuram, Tirunelveli district	1

Balasundaram et al. (1999)	Grand Anicut, Cauvery River in Tiruchirapalli district	24
Devi and Indra (1999)	Anamalai Hills, Western Ghats	1
Devi and Raghunathan (1999)	Chinnar and Cauvery rivers; Chinnar, Krishnagiri and Pambar dams in Dharmapuri district	47
Devi and Raghunathan (1999a)	Javadi and Yelagiri Hills and the Sathanur Dam in North Arcot District	30
Devi and Raghunathan (1999b)	Anamalai Hills in the Western Ghats	1
Devi et al. (1999)	29 collection localities from Chennai, Chengleput and Thiruvallur districts	51
Indra and Bai (1999)	Pennaiyar river systems in South Arcot district	31
Arunachalam (2000)	Thalaianai, Gadana, Hanuman Nathi and Gundar river sub-basins, Tamiraparani river basin, Western Ghats	30
Arunachalam and Manimekalan (2000)	Nilgiri biosphere reserve	1
Devi and Indra (2000)	From the literature known from the inland water bodies of Tamil Nadu	80
Jeyaraj (2000)	Lotic habitats of Kanyakumari district	1
Balasundaram et al. (2001)	Perinial rivers from Kolli Hills, Western Ghats, Salem district	19
Daniels and Rajagopal (2004)	Chembarampakkam Lake in the outskirts of Chennai	31
Raghunathan et al. (2005)	Tank inside Tiruvidanthai and Maraimalainagar sacred groves in Kancidpuram district	26
Devi et al. (2007)	Aliyar, Kallar, Sholayar, Italiar, Chinnar, Periyar, Varagalaiyar, Palar, Nirar, Kurumalayar and Vandaiyar streams; and Thirumurthy, Aliyar, Amaravathi, Sholayar and Nirar Dams from Indira Gandhi Wildlife Sanctuary	60
Raghunathan et al. (2008)	Paddy field near Chennai in Singaperumalkoil	35
Devi et al. (2009)	From the literature known from the inland water bodies of Tamil Nadu	152
Johnson and Arunachalam (2009)	Manimuthar, Tamiraparani, Chittar, Cauveri rivers of southern Western Ghats	21
Knight (2010)	Chembarampakkam tank in the outskirts of Chennai	1
Knight and Devi (2010)	Freshwater habitats around Chennai such as the Rettai Eri (near Red Hills), Madipakkam Lake, wetlands of Velacherry, Kovillampakkam Lake, Adyar River and the Chembarampakkam Lake	80
Dhinakaran et al. (2011)	Kalakkad Mundandhurai Tiger Reserve, upstream of Hanumannadhi, one of the sub-basins of river Tamiraparani, Bhavani River near Mettupalayam, Western Ghats	3
Knight et al. (2012)	Kakkan Halla, Moyar River drainage in the Nilgiris	1
Ng (2013)	Amaravathi river, a righthand tributary of the Cauvery river	1
Rajagopal and Davidar (2013)	10 wetlands associated to River Palar and its tributaries such as Cheyyar and Vegavathy in Kancheepuram district; 15 wetlands associated to Tamiraparani, Pazhayar, Valliar, Ponniavaikal, Paralayar rivers and their tributaries in Kanyakumari district	10
Knight and Devi (2014)	Vicinities of Chennai	1
Ramanujam et al. (2014)	Chembarampakkam Tank and Adyar River near Chennai	52
Mogalekar and Jawahar (2015)	From the literature known from the inland water bodies of Tamil Nadu	126
Ramanujam (2015)	Yercaud, Shevroy Hills, Eastern Ghats in Salem District	21

The Freshwater Fish Fauna of Tamil Nadu comprises 226 species represents 13 orders, 34 families and 93 genera (Table 3). A list of freshwater fishes of Tamil Nadu contains 136 species of primary freshwater fishes, 71 fishes were common to freshwater and brackish water and remaining 28 fishes were common to freshwater, brackish water and marine water (Table 2). The top three orders with diverse species composition were cypriniformes (125 species, 39 genera and four families), siluriformes (36 species, 13 genera and eight families) and perciformes (31 species, 21 genera and nine families) (Figure 1). The most diverse family was the cyprinidae with 111 species and 33 genera, followed by bagridae with 13 species and three genera and nemacheilidae with 11 species and four genera (Table 3).

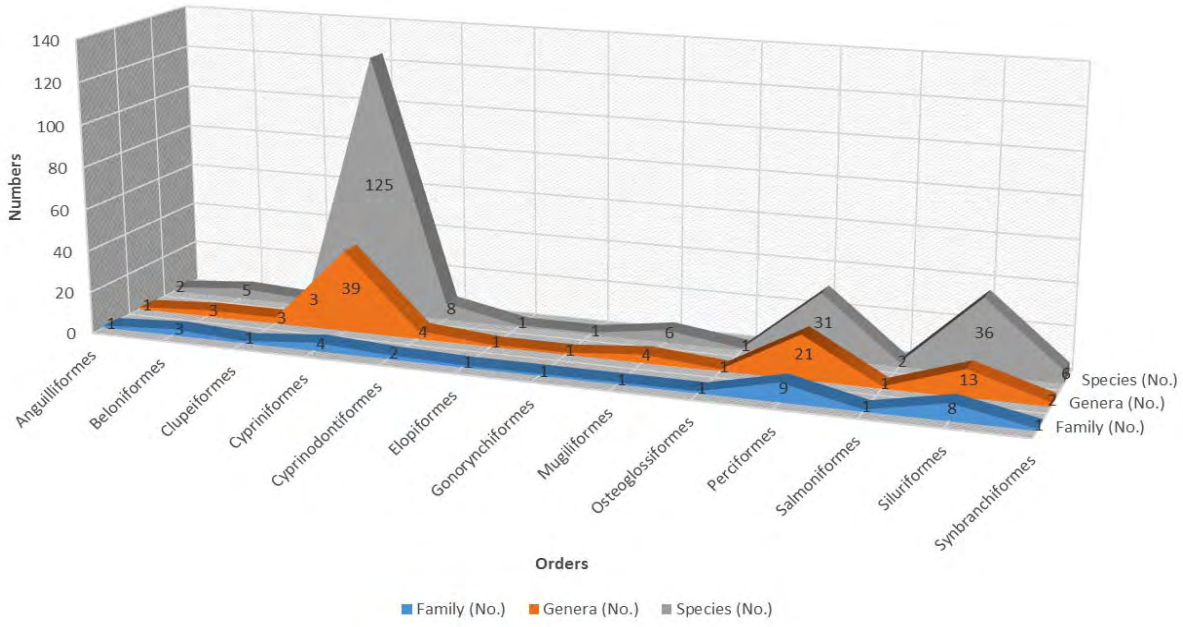

Fig. 1 Diversity of freshwater fishes of Tamil Nadu.

India has rich freshwater fish genetic resources constituting 930 species belonging to 326 genera and 99 families (Talwar and Jhingran, 1991) and Tamil Nadu constitute about 24.30 % to the freshwater fish diversity of India. Devi and Indra (2000) described 144 species of freshwater fishes belonging to 63 genera, 27 families and 11 orders from Tamil Nadu. Devi et al. (2009) documented 160 species under 27 families and 12 orders from inland water bodies of Tamil Nadu. Mogalekar and Jawahar (2015) listed 156 species of freshwater ornamental fishes belonging to 68 genera, 27 families and eight orders from Tamil Nadu. The list of freshwater fishes compiled in the present communication was greater than all the reports on freshwater fish fauna of Tamil Nadu since 1849 to 2015. Almost all the reports on freshwater fish fauna of Tamil Nadu agreed with dominance of cyprinids over other freshwater fish families.

We recognized 97 endemic or native species of fishes from Tamil Nadu and 19 exotic or non-native species to India. Out of 97 native species of fishes from Tamil Nadu 85 species are endemic or native to Western Ghats of India. Karmakar and Das (2005) listed 225 endemic freshwater fishes of India comprising 74 genera under 21 families and 9 orders. Tamil Nadu constitute about 43.11 % to the endemic freshwater fishes of India (Karmakar and Das, 2005). Western Ghats of India endowed with 212 species of endemic freshwater fishes (Dahanukar and Raghavan, 2013) and Tamil Nadu region of Western Ghats constitute about 40.09 % to the total endemic fish diversity of Western Ghats of India.

Fisheries should be viewed from an ecosystem perspective, as carnivore fish population are embedded in ecosystems where they perform their role as predator of other organisms. The consolidation of available data on the trophic level of freshwater fishes of Tamil Nadu ranged from 2.0 for Cyprinids to 4.5 for *Channa marulius* (Hamilton, 1822). Nearly 45.37 % of the freshwater fishes of Tamil Nadu are mid-level to high level carnivores with trophic level from 3.01 to 4.00. *Channa marulius* (Hamilton, 1822), *Pseudogobius javanicus* (Bleeker, 1856), *Oncorhynchus mykiss* (Walbaum, 1792), *Silonia childreni* (Sykes, 1839) and *Ompok malabaricus* (Valenciennes, 1840) are top predators with trophic level >4.00 (Table 2).

Table 2 Systematic list of Freshwater Fishes of Tamil Nadu with note on Endemic or exotic status, habitat, trophic level, maximum size, fishery and conservation status and references for reported locality.

Taxa	Common name	Habitat	Trophic Level (SE)	Maximum size (TL)	Fishery Information	References for Reported Locality
Kingdom: Animalia						
Phylum: Chordata						
Class: Actinopterygii						
Order: Anguilliformes						
Family: Anguillidae						
Anguilla bengalensis (Gray, 1831)	Indian mottled eel	M, F, B	3.8±0.7	200 cm	Capture, Gamefish	1, 3, 5, 16, 18, 26, 36, 39
Anguilla bicolor McClelland, 1844	Indonesian shortfin eel	M, F, B	3.6±0.50	123 cm	Capture	29, 36, 39, 45
Order: Beloniformes						
Family: Adrianichthyidae						
Oryzias carnaticus (Jerdon, 1849)	-	F, B	3.3±0.4	3.0 cm SL	Ornamental	33, 35, 36, 45, 46
Oryzias dancena (Hamilton, 1822)	Ricefish	F, B	3.3±0.4	3.1 cm SL	Ornamental	32, 39, 45, 46
Oryzias melastigma (McClelland, 1839)	-	F, B	3.3±0.4	4.0 cm	Ornamental	5, 8, 14, 15, 22, 23, 25, 29, 46
Family: Belonidae						
Xenentodon cancila (Hamilton, 1822)	Freshwater garfish	M, F, B	3.9±0.62	40.0 cm	Capture, Ornamental	1, 5, 15, 20, 32, 34, 36, 39, 45, 46
Family: Hemiramphidae						
Hyporhamphus limbatus (Valenciennes, 1847)	Congaturi halfbeak	M, F, B	3.1±0.1	35.0 cm	Capture	45, 46
Order: Clupeiformes						
Family: Clupeidae						
Hilsa kelee (Cuvier, 1829)	Kelee shad	M, F, B	2.9±0.33	35.0 cm	Capture	4
Tenualosa ilisha (Hamilton, 1822)	Hilsa shad	M, F, B	2.9±0.29	60.0 cm SL	Capture, Cultivable	5, 16
Order: Cypriniformes						
Family: Balitoridae						
Bhavania australis (Jerdon, 1849)	Western Ghat loach	F	2.9±0.3	9.0 cm SL	Ornamental	9, 18, 27, 29, 34, 36, 37, 46
Family: Cobitidae						
Lepidocephalichthys guntea (Hamilton, 1822)	Guntea loach	F, B	2.7±0.2	15.0 cm	Ornamental	2, 32, 39, 45, 46
Lepidocephalichthys thermalis (Valenciennes, 1846)	Common spiny loach	F	2.9±0.4	38.0 cm SL	Ornamental	1, 3, 5, 7, 8, 9, 11, 12, 14, 15, 18, 20, 22, 23, 25, 26, 27, 29, 31, 33, 34, 35, 36, 39, 45, 46, 47
Family: Cyprinidae						
Amblypharyngodon melettinus (Valenciennes, 1844)	Attentive carplet	F	2.1±0.0	8.0 cm	Capture, Ornamental	3, 5, 15, 29, 36, 46
Amblypharyngodon microlepis (Bleeker, 1853) **ENI**	Indian carplet	F	3.2±0.4	10.0 cm	Ornamental	1, 2, 5, 8, 11, 12, 14, 18, 22, 23, 25, 26, 29, 32, 33, 34, 35, 36, 39, 45, 46
Amblypharyngodon mola (Hamilton, 1822)	Mola carplet	F	3.3±0.4	20.0 cm	Ornamental	1, 13, 39, 46
Bangana ariza (Hamilton, 1807) **ENI**	Reba	F	2.7±0.25	30.0 cm SL	Capture	5, 29, 36
Bangana dero (Hamilton, 1822)	Kalabans	F	2.0±0.00	75.0 cm	Capture	15, 22, 29, 36, 45
Barbodes carnaticus (Jerdon, 1849) **ENWGI**	Carnatic carp	F	2.0±0.00	60.0 cm	Capture, Cultivable	3, 4, 5, 16, 17, 22, 29, 34, 36
Barilius bakeri Day, 1865 **ENWGI**	Malabar baril	F	3.2±0.4	15.0 cm	Ornamental	30, 46
Barilius bendelisis (Hamilton, 1807)	Bagra bahri	F	3.3±0.4	22.7 cm	Capture	3, 5, 8, 15, 20, 26, 29, 31, 34, 36, 46

Barilius gatensis (Valenciennes, 1844) **ENWGI**	-	F	3.2±0.4	15.0 cm	Ornamental	3, 5, 6, 29, 34, 36, 46
Carassius carassius (Linnaeus, 1758) **EXI**	Crucian carp	F, B	3.1±0.24	64.0 cm	Capture, Cultivable, Ornamental	5
Catla catla (Hamilton, 1822)	Catla	F, B	2.8±0.22	182 cm	Capture, Cultivable, Gamefish	1, 4, 5, 7, 12, 16, 22, 23, 25, 34, 36, 39, 45, 47
Chela cachius (Hamilton, 1822)	Silver hatchet chela	F, B	3.1±0.4	6.0 cm	Ornamental	1, 3, 25, 35, 36, 39, 46
Chela macrolepis Knight and Rema Devi, 2014	-	F	3.1±0.4	3.8 cm SL	Ornamental	44, 46
Cirrhinus cirrhosus (Bloch, 1795) **ENWGI**	Mrigal carp	F, B	2.4±0.17	100.0 cm SL	Capture, Cultivable, Gamefish	5, 4, 16, 34, 36, 39, 47
Cirrhinus fulungee (Sykes, 1839) **ENWGI**	Deccan white carp	F	2.4±0.2	30.0 cm SL	Capture	2
Cirrhinus macrops Steindachner, 1870 **ENI**	Hora white carp	F	2.4±0.2	35.0 cm	Capture	36
Cirrhinus mrigala (Hamilton, 1822)	Mrigal	F	2.2±0.2	99.0 cm	Capture, Cultivable, Gamefish	4, 5, 7, 12, 16, 22, 23, 25, 36
Cirrhinus reba (Hamilton, 1822)	Reba carp	F	2.4±0.2	30.0 cm	Capture, Cultivable	1, 2, 3, 4, 5, 15, 22, 31, 36, 39
Ctenopharyngodon idella (Valenciennes, 1844) **EXI**	Grass carp	F	2.0±0.00	150 cm	Capture, Cultivable, Gamefish	36, 39
Cyprinus carpio Linnaeus, 1758 **EXI**	Common carp	F, B	3.1±0.0	120 cm	Capture, Cultivable, Ornamental, Gamefish	4, 5, 7, 12, 16, 29, 34, 36
Danio rerio (Hamilton, 1822)	Zebra danio	F	3.1±0.1	3.8 cm SL	Ornamental	25, 26, 29, 36, 46
Dawkinsia arulius (Jerdon, 1849) **ENWGI**	Arulius barb	F	2.7±0.1	12.0 cm	Ornamental	29, 36, 46
Dawkinsia filamentosa (Valenciennes, 1844) **ENWGI**	Blackspot barb	F, B	2.6±0.0	18.0 cm	Capture, Ornamental	1, 2, 3, 5, 7, 11, 15, 18, 20, 22, 25, 27, 32, 34, 36, 37, 39, 45, 46, 47
Dawkinsia tambraparniei (Silas, 1954) **ENWGI**	Tambraparniei barb	F	2.0±0.00	12.8 cm SL	Ornamental	18, 27, 29, 36, 37, 46
Devario aequipinnatus (McClelland, 1839)	Giant danio	F	2.9±0.33	15.0 cm	Ornamental	2, 3, 5, 6, 9, 11, 15, 18, 20, 22, 23, 27, 36, 37, 46, 47
Devario malabaricus (Jerdon, 1849)	Malabar danio	F	3.2±0.2	12.0 cm	Ornamental	34, 36
Devario neilgherriensis (Day, 1867) **ENWGI**	-	F	3.0±0.4	10.0 cm	Ornamental	29, 36, 46
Esomus barbatus (Jerdon, 1849) **ENWGI**	South Indian flying barb	F	2.7±0.3	12.0 cm	Ornamental	2, 3, 5, 6, 8, 11, 12, 14, 15, 26, 39, 46
Esomus danrica (Hamilton, 1822)	Flying barb	F, B	2.4±0.1	13.0 cm	Capture, Ornamental	1, 5, 13, 25, 26, 32, 33, 35, 36, 39, 45, 46
Esomus thermoicos (Valenciennes, 1842)	-	F	2.3±0.14	12.7 cm	Ornamental	6, 9, 15, 22, 18, 23, 25, 27, 33, 34, 35, 36, 39, 45, 46
Garra gotyla (Gray, 1830)	Sucker head	F	2.0±0.00	18.0 cm	Capture	29, 40, 46
Garra hughi Silas, 1955 **ENWGI**	Cardamon garra	F	-	15.5 cm SL	Ornamental	21, 29, 34, 36, 46
Garra jerdoni Day, 1867	-	F	-	16.1 cm SL	Ornamental	3
Garra kalakadensis Rema Devi, 1993 **ENWGI**	-	F	-	7.4 cm SL	Ornamental	9, 10, 29, 36, 40, 46
Garra mcclellandi (Jerdon, 1849) **ENWGI**	Cauvery garra	F	-	17.4 cm	Ornamental	5, 29, 34, 36, 46
Garra mullya (Sykes, 1839) **ENI**	Sucker fish	F	2.0±0.00	17.0 cm	Ornamental	2, 3, 5, 6, 7, 8, 9, 11, 12, 15, 18, 20, 22, 23, 26, 27, 34, 36, 37, 40, 46, 47
Garra stenorhynchus (Jerdon, 1849) **ENWGI**	Nilgiris garra	F	-	15.5 cm SL	Ornamental	3, 20, 26, 36
Haludaria afasciata (Jayaram, 1990) **ENWGI**	-	F	2.9±0.3	-	Ornamental	36, 46
Haludaria fasciata (Jerdon, 1849) **ENWGI**	Melon barb	F	3.0±0.4	7.0 cm	Ornamental	34, 36, 46

Haludaria kannikattiensis (Arunachalam and Johnson, 2003) **ENWGI**	-	F	2.9±0.3	-	Ornamental	37, 46
Haludaria melanampyx (Day, 1865) **ENWGI**	-	F	2.9±0.3	7.5 cm	Ornamental	2, 3, 6, 7, 11, 29, 37, 46
Horadandia atukorali Deraniyagala, 1943	-	F	3.2±0.40	3.0 cm	Ornamental	25, 29, 36, 39, 46
Horalabiosa joshuai Silas, 1954 **ENWGI**	-	F	2.8±0.3	9.0 cm SL	Ornamental	9, 27, 29, 36, 37, 46
Horalabiosa palaniensis Rema Devi and Menon, 1994 **ENWGI**	-	F	2.8±0.3	7.7 cm SL	Ornamental	29, 36, 46
Hypophthalmichthys molitrix (Valenciennes, 1844) **EXI**	Silver carp	F	2.0±0.00	105 cm	Capture, Cultivable	23, 29, 36, 39
Hypselobarbus curmuca (Hamilton, 1807) **ENWGI**	Curmuca barb	F	2.6±0.26	120 cm	Capture, Cultivable	3, 6, 27, 34, 36, 37
Hypselobarbus dobsoni (Day, 1876) **ENWGI**	Krishna carp	F	2.0±0.00	120.0 cm	Cultivable	18, 27, 29, 34, 36, 37
Hypselobarbus dubius (Day, 1867) **ENWGI**	Nilgiris barb	F	2.7±0.30	25.0 cm	Capture	3, 4, 6, 16, 22, 34, 36, 37
Hypselobarbus jerdoni (Day, 1870) **ENWGI**	Jerdon's carp	F	2.0±0.00	46.0 cm	Capture	3, 5, 29, 34, 36
Hypselobarbus kurali Menon and Rema Devi, 1995 **ENWGI**	-	F	-	35.0 cm	Capture	29, 36
Hypselobarbus lithopidos (Day, 1874) **ENWGI**	Canara barb	F	-	60.0 cm	Capture	6
Hypselobarbus micropogon (Valenciennes, 1842) **ENWGI**	Korhi barb	F	2.0±0.00	90.0 cm	Capture, Gamefish	3, 5
Hypselobarbus mussullah (Sykes, 1839) **ENWGI**	Humpback mahseer	F	-	150 cm	Capture, Gamefish	36
Hypselobarbus pulchellus (Day, 1870) **ENWGI**	-	F	2.0±0.00	44.0 cm	Capture	3
Labeo altivelis Peters, 1852	Rednose labeo	F	2.0±0.00	49.0 cm	Capture, Gamefish	16
Labeo bata (Hamilton, 1822)	Bata	F	-	61.0 cm	Capture, Cultivable	2, 29, 36
Labeo boga (Hamilton, 1822)	Boga labeo	F	-	30.0 cm	Capture	5, 15, 29, 36
Labeo boggut (Sykes, 1839)	Boggut labeo	F	-	29.0 cm	Capture, Cultivable	29, 36
Labeo calbasu (Hamilton, 1822)	Orangefin labeo	F, B	2.0±0.00	90.0 cm	Capture, Cultivable	1, 4, 5, 18, 20, 22, 23, 27, 31, 36, 39
Labeo fimbriatus (Bloch, 1795)	Fringed-lipped peninsula carp	F	2.0±0.00	91.0 cm	Capture, Cultivable	2, 4, 5, 16, 36
Labeo kontius (Jerdon, 1849) **ENWGI**	Pigmouth carp	F	-	61.0 cm	Capture, Cultivable	3, 4, 5, 16, 36
Labeo pangusia (Hamilton, 1822)	Pangusia labeo	F	2.0±0.00	90.0 cm	Capture	15, 22, 29, 36
Labeo potail (Sykes, 1839) **ENWGI**	Deccan labeo	F	-	30.0 cm	Capture	29, 46
Labeo rohita (Hamilton, 1822)	Roho labeo, Rohu	F, B	2.2±0.12	200 cm	Capture, Cultivable, Gamefish	4, 5, 7, 12, 16, 22, 23, 25, 34, 36, 39
Laubuka dadiburjori Menon, 1952 **ENWGI**	Dadio	F	3.2±0.3	2.5 cm SL	Ornamental	46
Laubuka fasciata (Silas, 1958) **ENWGI**	Malabar hatchet chela	F	3.1±0.3	6.0 cm	Ornamental	36, 46
Laubuka laubuca (Hamilton, 1822)	Indian glass barb	F, B	3.2±0.2	7.0 cm	Ornamental	3, 15, 25, 32, 33, 35, 36, 39, 45, 46
Neolissochilus bovanicus (Day, 1877) **ENWGI**	Bowany barb	F	-	36.0 cm	Capture	29
Neolissochilus hexagonolepis (McClelland, 1839)	Copper mahseer	F	3.0±0.37	120 cm	Capture, Cultivable, Gamefish	4, 16
Neolissochilus wynaadensis (Day, 1873) **ENWGI**	Wayanad Mahseer, Copper Mahseer	F	2.8±0.3	25.0 cm	Capture	29, 36, 46
Osteobrama cotio (Hamilton, 1822) **ENI**	Cotio	F	2.8±0.3	15.0 cm	Ornamental	5, 29, 46
Osteobrama neilli (Day, 1873) **ENWGI**	Nilgiri osteobrama	F	2.8±0.3	12.0 cm	Ornamental	29, 36, 46
Osteobrama peninsularis Silas, 1952 **ENWGI**	Peninsular Osteobrama	F	2.8±0.3	15.0 cm	Capture	36, 39, 46
Osteobrama vigorsii (Sykes,	Bheema	F, B	2.7±0.3	30.0 cm	Capture	2

1839) **ENI**	osteobrama					
Osteochilichthys brevidorsalis (Day, 1873) **ENWGI**	Kantaka barb	F	-	15.0 cm	Ornamental	3, 5, 22, 29, 36
Osteochilus nashii (Day, 1869) **ENWGI**	Nash's barb	F	-	18.0 cm	Capture	3, 29, 36, 46
Pethia conchonius (Hamilton, 1822)	Rosy barb	F	2.9±0.33	14.0 cm	Ornamental	25, 22, 26, 29, 31, 32, 33, 34, 35, 36, 39, 45, 46, 47
Pethia gelius (Hamilton, 1822)	Golden barb	F	3.3±0.41	5.1 cm	Ornamental	36, 38, 46
Pethia nigripinna (Knight, Rema Devi, Indra and Arunachalam, 2012)		F	2.6±0.1	4.5 cm SL	Ornamental	41, 46
Pethia nigrofasciata (Günther, 1868)	Black ruby barb	F	2.0±0.00	6.0 cm	Ornamental	5
Pethia punctata (Day, 1865) **ENWGI**	-	F	2.5±0.1	7.5 cm	Ornamental	29, 34, 36, 46
Pethia sharmai (Menon and Rema Devi, 1993) **ENWGI**	-	F	2.8±0.2	2.7 cm SL	Ornamental	25, 29, 35, 36, 39, 45, 46
Pethia ticto (Hamilton, 1822)	Ticto barb	F, B	2.2±0.0	10.0 cm	Ornamental	2, 3, 5, 7, 9, 15, 18, 20, 22, 23, 25, 26, 27, 32, 33, 35, 36, 37, 39, 45, 46
Puntius amphibius (Valenciennes, 1842) **ENWGI**	Scarlet-banded barb	F, B	2.0±0.00	20.0 cm	Capture	1, 3, 11, 12, 13, 15, 18, 22, 23, 25, 26, 27, 29, 32, 34, 35, 36, 37, 39, 45, 46
Puntius arenatus (Day, 1878) **ENWGI**	Aranatus barb	F	2.6±0.1	10.0 cm	Capture	7, 29, 36, 46
Puntius bimaculatus (Bleeker, 1863)	Redside barb	F	2.4±0.2	7.0 cm	Ornamental	8, 9, 18, 22, 23, 27, 29, 34, 36, 37, 46, 47
Puntius cauveriensis (Hora, 1937) **ENWGI**	Cauvery barb	F	2.6±0.1	7.4 cm	Ornamental	34, 36, 46
Puntius chola (Hamilton, 1822)	Swamp barb	F	2.5±0.1	15.0 cm	Capture, Ornamental	2, 3, 5, 7, 9, 11, 12, 14, 15, 22, 25, 26, 29, 32, 33, 34, 35, 36, 39, 45, 46, 47
Puntius dorsalis (Jerdon, 1849) **ENWGI**	Long snouted barb	F	2.8±0.1	25.0 cm	Capture, Ornamental	1, 3, 5, 7, 9, 11, 12, 14, 15, 18, 22, 25, 26, 27, 29, 32, 33, 34, 35, 36, 37, 39, 45, 46
Puntius fraseri (Hora and Misra, 1938) **ENWGI**	Dharna barb	F	2.8±0.1	4.6 cm	Ornamental	26
Puntius mahecola (Valenciennes, 1844) **ENWGI**	-	F	2.6±0.1	8.9 cm	Ornamental	1, 7, 39, 45, 46
Puntius melanostigma (Day, 1878) **ENWGI**	-	F	2.6±0.1	10.0 cm	Ornamental	1, 7, 29, 34, 35, 36, 46
Puntius mudumalaiensis Menon and Rema Devi, 1992 **ENWGI**	-	F	2.9±0.1	2.3 cm SL	Ornamental	22, 29, 36, 46
Puntius parrah Day, 1865 **ENWGI**	Parrah barb	F	2.5±0.1	15.0 cm	Ornamental	5, 29, 36, 46
Puntius sophore (Hamilton, 1822)	Pool barb	F, B	2.6±0.1	20.0 cm	Ornamental	1, 2, 3, 5, 7, 8, 11, 13, 14, 15, 20, 22, 23, 25, 26, 27, 31, 32, 33, 34, 35, 36, 39, 45, 46
Puntius vittatus Day, 1865	Greenstripe barb	F, B	2.0±0.00	5.0 cm	Ornamental	1, 5, 11, 14, 15, 18, 20, 22, 23, 25, 26, 27, 29, 32, 33, 35, 36, 39, 45, 46
Rasbora caverii (Jerdon, 1849) **ENWGI**	Cauvery rasbora	F, B	3.2±0.4	10.0 cm	Capture, Ornamental	7, 8, 9, 12, 15, 23, 25, 26, 32, 33, 34, 35, 36, 39, 45, 46
Rasbora daniconius (Hamilton, 1822)	Slender rasbora	F, B	3.1±0.1	15.0 cm	Capture, Ornamental	1, 2, 3, 5, 6, 7, 9, 11, 12, 13, 14, 15, 18, 20, 22, 23, 25, 26, 27, 31, 32, 33, 34, 35, 36, 37, 39, 45, 46
Salmostoma	Silver razorbelly	F	3.2±0.4	15.0 cm	Ornamental	3, 5, 34, 36, 39, 46

acinaces (Valenciennes 1844) **ENWGI**	minnow					
Salmostoma bacaila (Hamilton, 1822)	Large razorbelly minnow	F, B	3.2±0.40	18.0 cm	Ornamental	11, 13, 39, 46
Salmostoma balookee (Sykes, 1839) **ENI**	Bloch razorbelly minnow	F	3.2±0.4	15.0 cm	Capture	1, 2, 3, 5, 7, 11, 12, 15, 18, 22, 25, 29, 32, 34, 35, 36, 39, 45
Salmostoma boopis (Day, 1874) **ENWGI**	Boopis razorbelly minnow	F	2.9±0.3	12.0 cm	Capture	15
Salmostoma novacula (Valenciennes, 1840) **ENWGI**	Novacula razorbelly minnow	F	2.9±0.3	12.5 cm	Capture	29, 36, 46
Salmostoma untrahi (Day, 1869) **ENI**	Mahanadi razorbelly minnow	F	2.3±0.10	20.0 cm	Capture	36
Systomus rubripinnis (Valenciennes, 1842)	Javaen barb	F	2.9±0.34	25.0 cm SL	Capture	18, 27, 39
Systomus sarana (Hamilton, 1822)	Olive barb	F, B	2.9±0.2	42.0 cm	Capture, Ornamental, Gamefish	1, 2, 3, 4, 5, 7, 9, 11, 12, 15, 18, 20, 22, 23, 25, 27, 29, 31, 32, 34, 36, 39, 45, 46
Tinca tinca (Linnaeus, 1758) **EXI**	Tench	F, B	3.7±0.0	70.0 cm SL	Capture, Cultivable, Ornamental, Gamefish	4, 16, 46
Tor khudree (Sykes, 1839)	Deccan mahseer	F	3.1±0.43	50.0 cm	Capture, Cultivable, Gamefish	3, 5, 6, 16, 22, 27, 34, 36, 37
Tor malabaricus (Jerdon, 1849) **ENWGI**	Malabar mahseer	F	2.9±0.4	40.0 cm	Capture	11, 27, 36
Tor putitora (Hamilton, 1822)	Putitor mahseer	F	2.9±0.3	275 cm	Capture, Cultivable, Ornamental, Gamefish	4, 16
Tor tor (Hamilton, 1822)	Tor barb	F	2.6±0.1	200 cm	Capture, Cultivable, Gamefish	16
Family: Nemacheilidae						
Mesonoemacheilus herrei Nalbant and Banarescu, 1982 **ENWGI**	-	F	2.8±0.3		Ornamental	34, 36
Nemacheilus denisoni Day, 1867 **ENWGI**	-	F	2.8±0.3	5.0 cm SL	Ornamental	3, 6, 7, 8, 22, 29, 34, 36, 46, 47
Nemacheilus guentheri Day, 1867 **ENWGI**	-	F	2.8±0.3	5.6 cm SL	Ornamental	3
Nemacheilus longistriatus Kottelat, 1990	-	F	2.8±0.27	12.5 cm SL	Ornamental	2
Nemacheilus monilis Hora, 1921 **ENWGI**	-	F	2.8±0.3	4.8 cm SL	Ornamental	3, 34, 36
Nemacheilus nilgiriensis Menon, 1987 **ENWGI**	-	F	2.8±0.3	5.1 cm SL	Ornamental	36, 46
Nemacheilus pulchellus Day, 1873 **ENWGI**	-	F	2.8±0.3	4.6 cm SL	Ornamental	15, 36, 46
Nemacheilus semiarmatus Day, 1867 **ENWGI**	-	F	2.0±0.00	5.6 cm SL	Ornamental	7, 36, 46
Nemacheilus triangularis Day, 1865 **ENWGI**	-	F	2.3±0.34	5.8 cm SL	Ornamental	6, 9, 11, 18, 27, 36, 37, 46
Paracanthocobitis mooreh (Sykes, 1839) **ENWGI**	Mooree	F	2.9±0.3	4.4 cm	Ornamental	29, 46
Schistura beavani (Günther, 1868) **ENI**	Creek loach	F	3.2±0.4	8.0 cm	Ornamental	3
Order: Cyprinodontiformes						
Family: Aplocheilidae						
Aplocheilus blockii Arnold, 1911	Green panchax	F, B	3.8±0.60	6.0 cm	Ornamental	11, 14, 25, 36, 46
Aplocheilus lineatus (Valenciennes, 1846) **ENI**	Malabar killie	F, B	3.8±0.5	10.0 cm	Ornamental	2, 5, 6, 9, 11, 15, 18, 27, 34, 36, 46
Aplocheilus panchax (Hamilton, 1822)	Blue panchax	F, B	3.2±0.40	9.0 cm	Ornamental	2
Aplocheilus parvus (Sundara Raj,	Dwarf panchax	F, B	3.5±0.45	6.3 cm	Ornamental	1, 36, 39, 45, 46

1916)						
Family: Poeciliidae						
Gambusia affinis (Baird and Girard, 1853) **EXI**	Mosquitofish	F, B	3.1±0.2	5.1 cm	Ornamental	7, 11, 12, 14, 15, 22, 23, 25, 26, 29, 33, 34, 35, 36, 39, 45, 46
Poecilia reticulata Peters, 1859 **EXI**	Guppy	F, B	3.2±0.4	5.0 cm SL	Ornamental	23, 25, 29, 36, 45, 46, 47
Xiphophorus hellerii Heckel, 1848 **EXI**	Green swordtail	F, B	3.2±0.43	14.0 cm	Ornamental	25
Xiphophorus maculatus (Günther, 1866) **EXI**	Southern platyfish	F	3.2±0.40	4.0 cm	Ornamental	25
Order: Elopiformes						
Family: Megalopidae						
Megalops cyprinoides (Broussonet, 1782)	Indo-Pacific tarpon	M, F, B	3.5±0.1	150 cm	Capture, Cultivable, Gamefish	1, 5, 11, 29, 36, 45
Order: Gonorynchiformes						
Family: Chanidae						
Chanos chanos (Forsskål, 1775)	Milkfish	M, F, B	2.4±0.20	180 cm SL	Capture, Cultivable, Gamefish	5, 16
Order: Mugiliformes						
Family: Mugilidae						
Chelon parsia (Hamilton, 1822)	Goldspot mullet	M, F, B	2.0±0.00	16.0 cm	Capture, Cultivable	5, 11, 15, 29
Chelon planiceps (Valenciennes, 1836)	Tade gray mullet	M, F, B	2.0±0.00	70.0 cm	Capture, Cultivable	29
Chelon subviridis (Valenciennes, 1836)	Greenback mullet	M, F, B	2.7±0.30	40.0 cm SL	Capture, Cultivable	29
Mugil cephalus Linnaeus, 1758	Flathead grey mullet	M, F, B	2.5±0.17	100.0 cm SL	Capture, Cultivable	11, 26, 29
Rhinomugil corsula (Hamilton, 1822)	Corsula	F, B	2.4±0.2	45.0 cm	Capture, Cultivable	4, 5, 7, 15, 16, 22, 34, 36
Sicamugil cascasia (Hamilton, 1822)	Yellowtail mullet	F	2.7±0.2	10.0 cm	Capture	36
Order: Osteoglossiformes						
Family: Notopteridae						
Notopterus notopterus (Pallas, 1769)	Bronze featherback	F, B	3.5±0.0	60.0 cm SL	Capture, Cultivable, Ornamental	1, 2, 4, 5, 20, 22, 23, 25, 26, 32, 34, 35, 36, 39, 45, 46, 47
Order: Perciformes						
Family: Ambassidae						
Ambassis ambassis (Lacepède, 1802)	Commerson's glassy	F, B	3.7±0.56	15.0 cm	Capture	1, 11, 29, 46
Chanda nama Hamilton, 1822	Elongate glass-perchlet	F, B	3.6±0.54	11.0 cm	Capture, Ornamental	5, 15, 22, 25, 26, 34, 35, 36, 39, 45, 46, 47
Parambassis lala (Hamilton, 1822) **ENI**	Highfin glassy perchlet	F, B	3.2±0.5	3.8 cm SL	Ornamental	39, 46
Parambassis ranga (Hamilton, 1822)	Indian glassy fish	F, B	3.3±0.39	8.0 cm	Capture, Ornamental	1, 2, 5, 18, 25, 27, 32, 35, 36, 39, 45, 46
Family: Anabantidae						
*Anabas testudineus (*Bloch, 1792)	Climbing perch	F, B	3.0±0.4	25.0 cm	Capture, Cultivable, Ornamental	5, 15, 20, 25, 33, 36, 39, 45, 46
Family: Badidae						
Badis badis (Hamilton, 1822)	Badis	F	3.3±0.39	5.0 cm	Ornamental	46
Family: Channidae						
Channa gachua (Hamilton, 1822)	-	F	3.8±0.62	20.0 cm SL	Ornamental	1, 2, 3, 23, 34, 39, 46, 47
Channa marulius (Hamilton, 1822)	Great snakehead	F	4.5±0.80	183 cm	Capture, Cultivable, Ornamental, Gamefish	5, 22, 36
Channa punctata (Bloch, 1793)	Spotted snakehead	F, B	3.8±0.70	1.0 cm	Capture, Cultivable, Ornamental	1, 2, 5, 8, 11, 12, 13, 14, 15, 20, 22, 23, 25, 26, 32, 33, 35, 36, 39, 45, 46
Channa striata (Bloch, 1793)	Striped snakehead	F, B	3.4±0.45	100.0 cm SL	Capture, Cultivable, Ornamental	1, 2, 5, 6, 7, 15, 23, 25, 36, 39, 45, 46

Family: Cichlidae						
Cichlasoma trimaculatum (Günther, 1867)	Three spot cichlid	F	3.4±0.56	36.5 cm SL	Ornamental	39, 46
Etroplus maculatus (Bloch, 1795)	Orange chromide	F, B	2.7±0.1	8.0 cm	Capture, Ornamental	1, 2, 5, 7, 11, 13, 14, 15, 18, 20, 22, 25, 26, 31, 32, 33, 34, 35, 36, 39, 45, 46, 47
Etroplus suratensis (Bloch, 1790)	Pearlspot	F, B	2.9±0.26	40.0 cm	Capture, Cultivable, Ornamental	1, 4, 5, 11, 14, 16, 20, 31, 39, 46
Hemichromis bimaculatus Gill, 1862	Jewelfish	F, B	3.9±0.64	13.6 cm SL	Ornamental	39, 46
Oreochromis aureus (Steindachner, 1864) **EXI**	Blue tilapia	F, B	2.1±0.0	45.7 cm	Capture, Cultivable, Ornamental	39, 46
Oreochromis mossambicus (Peters, 1852) **EXI**	Mozambique tilapia	F, B	2.2±0.0	39.0 cm SL	Capture, Cultivable	5, 4, 6, 7, 8, 11, 12, 13, 14, 15, 16, 18, 22, 23, 25, 26, 31, 32, 33, 34, 35, 36, 39, 45, 46, 47
Oreochromis niloticus (Linnaeus, 1758) **EXI**	Nile tilapia	F, B	2.0±0.0	60.0 cm SL	Capture, Cultivable	4, 23, 36, 39
Family: Gobiidae						
Awaous grammepomus (Bleeker, 1849)	Scribbled goby	F, B	3.3±0.48	15.0 cm SL	Capture	11, 29, 36, 46
Drombus globiceps (Hora, 1923)	Kranji drombus	M, F, B	3.2±0.3	4.3 cm	Capture	36
Favonigobius reichei (Bleeker, 1854)	Indo-Pacific tropical sand goby	M, F, B	3.4±0.4	8.3 cm	Capture	25
Glossogobius giuris (Hamilton, 1822)	Tank goby	M, F, B	3.7±0.2	50.0 cm SL	Capture, Cultivable, Ornamental	1, 2, 3, 5, 7, 8, 11, 13, 14, 15, 20, 22, 23, 25, 26, 27, 31, 32, 33, 34, 35, 36, 39, 45, 46, 47
Oligolepis acutipennis (Valenciennes, 1837)	Sharptail goby	F, B	4.0±0.65	15.0 cm	Capture	11
Psammogobius biocellatus (Valenciennes, 1837)	Sleepy goby	M, F, B	3.4±0.3	12.0 cm	Capture	11
Pseudogobius javanicus (Bleeker, 1856)	Goby of streams	M, F, B	4.2±0.73	6.0 cm	Capture	11, 36
Family: Nandidae						
Nandus nandus (Hamilton, 1822)	Gangetic leaffish	F, B	3.9±0.63	20.0 cm	Capture, Ornamental	1, 2, 39, 46
Family: Osphronemidae						
Osphronemus goramy Lacepède, 1801 **EXI**	Giant gourami	F, B	2.8±0.32	70.0 cm SL	Ornamental	1, 5, 39, 45, 46
Pseudosphromenus cupanus (Cuvier, 1831)	Spiketail paradisefish	F, B	3.3±0.42	7.5 cm	Ornamental	1, 5, 11, 15, 18, 20, 25, 33, 35, 36, 39, 46, 47
Trichogaster fasciata Bloch and Schneider, 1801	Banded gourami	F	3.1±0.3	12.5 cm	Ornamental	13, 15, 25, 35, 36
Trichogaster lalius (Hamilton, 1822)	Dwarf gourami	F	3.1±0.3	8.8 cm	Ornamental	32, 33, 36, 39, 45, 46
Trichopodus trichopterus (Pallas, 1770) **EXI**	Three spot gourami	F	2.7±0.23	15.0 cm SL	Ornamental	32, 39, 45, 46
Family: Pristolepididae						
Pristolepis marginata Jerdon, 1849 **ENWGI**	Malabar leaffish	F	3.4±0.5	15.0 cm	Capture, Ornamental	34, 36, 46
Order: Salmoniformes						
Family: Salmonidae						
Oncorhynchus mykiss (Walbaum, 1792) **EXI**	Rainbow trout	M, F, B	4.1±0.3	122.0 cm	Capture, Cultivable, Gamefish	4, 16, 36
Oncorhynchus nerka (Walbaum, 1792) **EXI**	Sockeye salmon	M, F, B	3.5±0.2	84.0 cm	Capture, Cultivable, Gamefish	36
Order: Siluriformes						
Family: Bagridae						
Hemibagrus punctatus (Jerdon, 1849) **ENWGI**	Nilgiri mystus	F	3.5±0.6	45.0 cm	Capture	3, 5, 29, 36, 46

Mystus armatus (Day, 1865) **ENWGI**	Kerala mystus	F, B	3.3±0.4	14.5 cm SL	Capture, Ornamental	11, 14, 18, 27, 29, 43, 46
Mystus bleekeri (Day, 1877)	Day's mystus	F	3.3±0.4	15.5 cm	Capture, Ornamental	14, 15, 20, 22, 25, 27, 29, 31, 33, 35, 36, 39, 45, 46
Mystus cavasius (Hamilton, 1822)	Gangetic mystus	F, B	3.4±0.5	40.0 cm SL	Capture	1, 2, 3, 5, 7, 15, 22, 25, 32, 34, 29, 31, 36, 39, 45
Mystus gulio (Hamilton, 1822)	Long whiskers catfish	F, B	4.0±0.50	46.0 cm	Capture	5, 15, 25, 29, 35, 36, 39, 43, 45
Mystus keletius (Valenciennes, 1840) **ENWGI**	Keletius mystus	F	3.4±0.2	18.0 cm	Capture, Ornamental	1, 26, 29, 32, 36, 39, 43, 46
Mystus malabaricus (Jerdon, 1849) **ENWGI**	Jerdon's mystus	F, B	3.3±0.4	15.0 cm	Capture	3, 29, 34, 36, 46
Mystus montanus (Jerdon, 1849) **ENWGI**	Wynaad mystus	F, B	3.2±0.34	15.0 cm	Capture	7, 8, 9, 11, 15, 29, 34, 36, 43, 46
Mystus oculatus (Valenciennes, 1840) **ENWGI**	Malabar mystus	F, B	3.3±0.4	15.0 cm	Capture	11, 29, 36
Mystus seengtee (Sykes, 1839) **ENWGI**	-	F	3.3±0.4	15.6 cm	Capture	43
Mystus vittatus (Bloch, 1794) **ENI**	Striped dwarf catfish	F, B	3.1±0.1	21.0 cm SL	Capture, Ornamental	1, 2, 3, 4, 5, 7, 9, 11, 12, 13, 14, 15, 25, 29, 31, 32, 33, 35, 36, 39, 43, 45, 46, 47
Sperata aor (Hamilton, 1822)	Long-whiskered catfish	F	3.6±0.53	180 cm	Capture, Gamefish	4, 5, 16, 36, 29, 39
Sperata seenghala (Sykes, 1839)	Giant river-catfis	F, B	3.8±0.4	150 cm	Capture, Cultivable, Gamefish	5, 23, 29, 36
Family: Clariidae						
Clarias batrachus (Linnaeus, 1758)	Philippine catfish	F, B	3.4±0.50	47.0 cm	Capture, Cultivable, Ornamental	1, 5, 31, 36
Clarias dayi Hora, 1936 **ENWGI**	Malabar clariid	F	3.3±0.5	17.5 cm	Capture	28
Clarias dussumieri Valenciennes, 1840 **ENWGI**	Valenciennes clariid	F	3.7±0.59	25.0 cm	Capture	29, 36
Clarias magur (Hamilton, 1822)	Maguro	F	3.4±0.5	21.3 cm SL	Capture, Cultivable, Gamefish	39
Clarias gariepinus (Burchell, 1822) **EXI**	North African catfish	F	3.8±0.4	170 cm	Capture, Cultivable, Gamefish	36, 39
Family: Heteropneustidae						
Heteropneustes fossilis (Bloch, 1794)	Stinging catfish	F, B	3.6±0.3	31.0 cm	Capture, Cultivable, Ornamental	1, 2, 5, 6, 11, 20, 23, 25, 33, 34, 35, 36, 39, 43, 45
Heteropneustes longipectoralis Rema Devi and Raghunathan, 1999 **ENWGI**	-	F	3.4±0.5	15.0 cm SL	Ornamental	24, 34, 36, 46
Heteropneustes microps (Günther, 1864) **ENWGI**	-	F, B	3.3±0.5	15.0 cm	Ornamental	19, 29, 46
Family: Loricariidae						
Pterygoplichthys disjunctivus (Weber, 1991) **EXI**	Vermiculated sailfin catfish	F	-	70.0 cm	Ornamental	39, 46
Pterygoplichthys pardalis (Castelnau, 1855) **EXI**	Amazon sailfin catfish	F	2.0±0.00	42.3 cm SL	Ornamental	39, 46
Family: Pangasiidae						
Pangasius pangasius (Hamilton, 1822)	Pangas catfish	F, B	3.4±0.51	300 cm SL	Capture, Cultivable, Gamefish	4, 5, 39
Family: Schilbeidae						
Neotropius atherinoides (Bloch, 1794)	Indian potasi	F, B	3.3±0.4	15.0 cm	Capture, Ornamental	1, 15, 25, 26, 31, 32, 35, 36, 39, 43, 45, 46
Silonia childreni (Sykes, 1839) **ENWGI**	White catfish	F	4.2±0.73	48.0 cm	Capture	5, 36
Silonia silondia (Hamilton, 1822)	Silond catfish	F, B	3.5±0.37	183 cm	Capture, Gamefish	4
Family: Siluridae						
Ompok bimaculatus (Bloch, 1794)	Butter catfish	F, B	3.9±0.4	45.0 cm SL	Capture, Cultivable, Ornamental	2, 3, 4, 6, 7, 18, 22, 31, 34, 36, 39, 43, 46,

						47
Ompok karunkodu Ng, 2013 [ENWGI]	-	F	3.8±0.6	22.9 cm SL	Ornamental	42
Ompok malabaricus (Valenciennes, 1840) [ENWGI]	Goan catfish	F	4.2±0.73	51.0 cm SL	Cultivable	34, 36, 43
Pterocryptis wynaadensis (Day, 1873) [ENWGI]	Malabar silurus	F	3.8±0.61	30.0 cm	Capture	3, 22, 27, 36, 37
Wallago attu (Bloch and Schneider, 1801)	Wallago	F, B	3.7±0.56	240 cm	Capture, Gamefish	1, 4, 5, 7, 16, 20, 22, 36, 39, 45
Family: Sisoridae						
Glyptothorax anamalaiensis Silas, 1952 [ENWGI]	-	F	3.2±0.4	-	Capture	34, 36
Glyptothorax annandalei Hora, *1923* [ENWGI]	-	F	3.2±0.4	11.5 cm	Capture, Ornamental	36, 46
Glyptothorax housei Herre, 1942 [ENWGI]	-	F	3.2±0.4	10.0 cm	Ornamental	36, 46
Glyptothorax madraspatanus (Day, 1873) [ENWGI]	-	F	3.2±0.4	11.5 cm	Capture, Ornamental	3, 5, 18, 27, 36, 37, 46
Order: Synbranchiformes						
Family: Mastacembelidae						
Macrognathus aculeatus (Bloch, 1786)	Lesser spiny eel	F, B	3.3±0.4	38.0 cm	Capture, Ornamental	1, 2, 13, 15
Macrognathus aral (Bloch and Schneider, 1801)	One-stripe spinyeel	F, B	3.1±0.33	63.5 cm	Capture	25, 22, 26, 36, 39, 45, 46
Macrognathus guentheri (Day, 1865) [ENWGI]	Malabar spiny eel	F	3.3±0.4	29.9 cm	Capture, Ornamental	11, 29, 36, 46
Macrognathus malabaricus (Jerdon, 1849)	Malabar spiny eel	F	3.3±0.4	26.0 cm	Capture, Ornamental	34
Macrognathus pancalus Hamilton, 1822	Barred spiny eel	F, B	3.5±0.51	18.0 cm	Capture	1, 2, 5, 25, 32, 33, 35, 36, 39, 45, 46
Mastacembelus armatus (Lacepède, 1800)	Zig-zag eel	F, B	2.8±0.27	90.0 cm	Capture, Ornamental	1, 2, 3, 5, 15, 16, 18, 20, 22, 25, 26, 31, 34, 36, 37, 39, 46, 47

ABRIVATIONS: [ENWGI] = Species endemic or native to Western Ghats of India; [ENI] = Species endemic or native to India; [EXI] = Species exotic or non-native to India; **Habitat:** F = Freshwater; B = Brackish; M = Marine; **Trophic Level:** S.E. = Standard Error; **Maximum size:** TL = total length, SL = standard length; **References for reported locality: 1 =** Raj (1916), **2** = Misra (1938), 3 = Rajan (1955), 4 = Sreenivasan (1976), 5 = Jayaram et al. (1982), 6 = Indra and Devi (1990), 7 = Indra (1991), 8 = Devi (1992), 9 = Devi (1992a), 10 = Devi (1992b), 11 = Indra (1992), 12 = Indra (1992a), 13 = Bai (1993), 14 = Devi and Ilango (1993), 15 = Indra (1994), 16 = Sreenivasan (1998), 17 = Arunachalam and Johnson (1999), 18 = Arunachalam and Sankaranarayanan (1999), 19 = Arunachalam et al. (1999), 20 = Balasundaram et al. (1999), 21 = Devi and Indra (1999), 22 = Devi and Raghunathan (1999), 23 = Devi and Raghunathan (1999a), 24 = Devi and Raghunathan (1999b), 25 = Devi et al. (1999), 26 = Indra and Bai (1999), 27 = Arunachalam (2000), 28 = Arunachalam and Manimekalan (2000), 29 = Devi and Indra (2000), 30 = Jeyaraj (2000), 31 = Balasundaram et al. (2001), 32 = Daniels and Rajagopal (2004), 33 = Raghunathan et al. (2005), 34 = Devi et al. (2007), 35 = Raghunathan et al. (2008), 36 = Devi et al. (2009), 37 = Johnson and Arunachalam (2009), 38 = Knight (2010), 39 = Knight and Devi (2010), 40 = Dhinakaran et al. (2011), 41 = Knight et al. (2012), 2 = Ng (2013), 43 = Rajagopal and Davidar (2013), 44 = Knight and Devi (2014), 45 = Ramanujam et al. (2014), 46 = Mogalekar and Jawahar (2015), 47 = Ramanujam (2015).

Assessment of the fishery status of freshwater fishes of Tamil Nadu revealed existence of 132 species worth for capture fishery, 132 species worth for ornamental fishery, 50 species worth for culture fishery and 28 species worth for gamefish fishery (Table 2). Collection of fishes from wild to develop the brood stock for captive breeding, seed production, experimental aquaculture of fast growing fishes and colourful fishes for aquarium purposes could be potential source of income in the rural areas of Tamil Nadu.

Table 3 Diversity of freshwater fishes of Tamil Nadu.

Order	**Family**	**Number of Genera**	**Number of Species**
Anguilliformes	Anguillidae	1	2
Beloniformes	Adrianichthyidae	1	3
	Belonidae	1	1
	Hemiramphidae	1	1
Clupeiformes	Clupeidae	2	2
Cypriniformes	Balitoridae	1	1
	Cobitidae	1	2
	Cyprinidae	33	111
	Nemacheilidae	4	11
Cyprinodontiformes	Aplocheilidae	1	4
	Poeciliidae	3	4
Elopiformes	Megalopidae	1	1
Gonorynchiformes	Chanidae	1	1
Mugiliformes	Mugilidae	4	6
Osteoglossiformes	Notopteridae	1	1
Perciformes	Ambassidae	3	4
	Anabantidae	1	1
	Badidae	1	1
	Channidae	1	4
	Cichlidae	4	7
	Gobiidae	6	7
	Nandidae	1	1
	Osphronemidae	3	5
	Pristolepididae	1	1
Salmoniformes	Salmonidae	1	2
Siluriformes	Bagridae	3	13
	Clariidae	1	5
	Heteropneustidae	1	3
	Loricariidae	1	2
	Pangasiidae	1	1
	Schilbeidae	2	3
	Siluridae	3	5
	Sisoridae	1	4
Synbranchiformes	Mastacembelidae	2	6
Total = 13	**Total = 34**	**Total = 93**	**Total = 226**

4 Conclusions

Tamil Nadu has rich freshwater fish genetic resources constitute about 24.30 % to the total freshwater fish diversity of India, about 43.11 % to the endemic freshwater fishes of India and 40.09 % to the total endemic fish diversity of Western Ghats of India. Proper conservation strategies need to be proposed, as 15.41 % of species facing the threat of endangerment.

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