



Chheng P., Baran E., Touch B.T. 2004 Synthesis of all published information on Java barb *Barbonymus gonionotus* (“trey chhpin”) based on FishBase 2004. WorldFish Center and Inland Fisheries Research and Development Institute, Phnom Penh, Cambodia. 20 pp.

## **Introduction**

This document results from the extraction and the editing by the authors of the information available in FishBase 2004.

FishBase is a biological database on fishes developed by the WorldFish Center (formerly ICLARM, the International Center for Living Aquatic Resources Management) in collaboration with the Food and Agriculture Organization of the United Nations (FAO) and with the support of the European Commission (EC).

These synopses present a standardized printout of the information on the above-mentioned species incorporated in FishBase as of 11 May 2004, is inspired from the format suggested for such documents by H. Rosa Jr. (1965, FAO Fish. Syn. (1) Rev 1, 84 p.).

We cannot guarantee the total accuracy of the information herein; also we are aware that it is incomplete and readers are invited to send complementary information and/or corrections, preferably in form of reprints or reports to the FishBase Project, WorldFish Center, MC P.O. Box 2631, Makati, Metro Manila 0718, Philippines.

### **Some hints on how to use the synopses**

The following definitions are meant to help you better understand the way this synopsis presents information and document its sources.

Please refer to the FishBase book for more details; and do not hesitate to contact FishBase staff if you have suggestions or information that would improve the format or the contents of this synopsis.

- SpecCode : Numeric FishBase code, assigned to a species and used for internal purposes only.
- StockCode : Numeric FishBase code, assigned to the species in general, a wild population, or a cultured strain. Since, to date, only a few species have been separated into stocks, the StockCode usually refers to the species in general.
- MainRef. : Numeric FishBase code corresponding to the reference used as a source for most of the information within a table.
- Ref. : Numeric FishBase code corresponding to the reference associated with a specific entry or set of entries; when left empty, the source of information is the MainRef. Note that the references listed at the end of this synopsis are arranged according to their numeric codes, and not alphabetically.
- Empty fields : Imply information that is currently not available to the FishBase project and/or information which is available but which has not been entered as of 31-Mar-04 . Note that the character 0 (zero) is used as a valid numerical value, and does not indicate that no information is available.
- Choice fields: Much of the information in this synopsis was entered via multiple choice fields; the available alternatives must be considered when evaluating the wisdom of a given choice.
- Remarks or Comment fields: The free text included in such fields may have been taken verbatim from the source in "Ref.", in which case this should be regarded as a direct citation (but lacking quotation marks); alternatively, the text may have been modified/adapted from one or several sources. In the latter case, additional "Ref." numbers may be incorporated in the text.

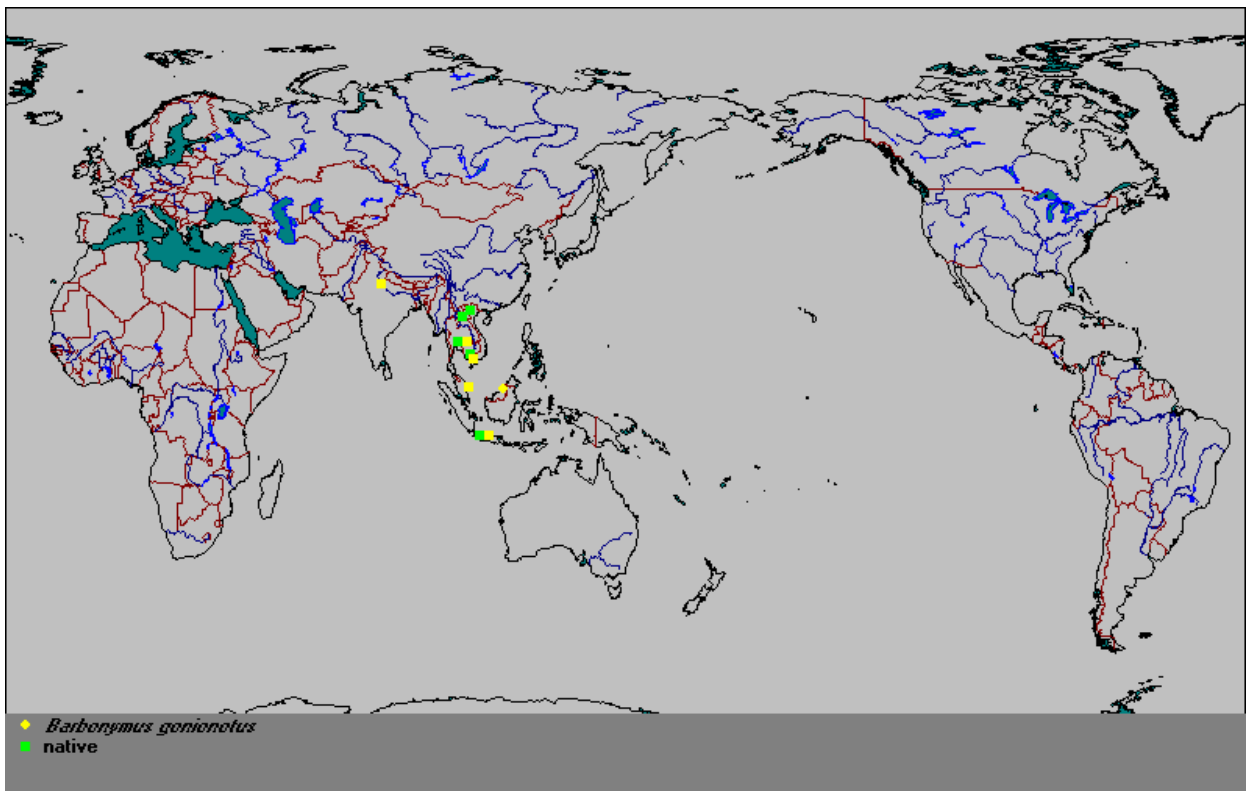
***Barbonymus gonionotus* (Bleeker, 1850)**  
**Java barb**



picture (Bagon\_u1.jpg) by [JJPhoto](#)



picture (Bagon\_u0.jpg) by [Warren, T.](#)



## Summary information on the family Cyprinidae

Family : Cyprinidae (Minnows or carps)  
Order : Cypriniformes  
Class : Actino:pterygii (ray-finned fishes)

MainRef. :007463  
FamCode : 122

Number of genera : 210 Number of species : 2010

Occurs in : O Marine  
          o Brackish  
          o Freshwater

Aquarium fishes : many  
First fossil record : lower Tertiary  
                          Eocene  
                          Ref.: : 004879

Species currently in FishBase : Genera: 331 Species: 2408 (Including subspecies) complete : Yes

Remarks: Distribution: North America (northern Canada to southern Mexico), Africa, and Eurasia. Pharynx with 1-3 rows of teeth, each row with a maximum of 8 teeth. Usually thin lips, plicae or papillae absent; mouth sometimes suckerlike ( Garra and Labeo ). With or without barbels. Premaxilla usually borders the upper jaw making the maxilla entirely or almost entirely excluded from the gape. Usually protrusible upper jaw. Dorsal fin with spinelike rays in some. Primitive number of chromosomes 2n=50, some with 48; polyploidy exists. Maximum length at least 2.5 m to probably 3 m in Catlocarpio siamensis ; many species less than 5 cm. Mainly non-guarders, but in some species males build nests and/or protect the eggs.

Etymology: Greek, kyprinos = goldfish. 1828 ( Ref. 45335).

## Information on the genus *Barbonymus* and its synonyms, after Eschmeyer March 2003 (Ref. 46206)

*Barbonymus* Status : no revision Gender : masculine  
Kottelat, 1999, p. 595, CAS Ref: 24610  
Type by original designation.  
Type species : *Barbus schwanenfeldii* Bleeker, 1853  
Current genus: *Barbonymus*

## General information on *Barbonymus gonionotus*

### Classification

Class : Actinopterygii (ray-finned fishes)  
Order : Cypriniformes  
Family : Cyprinidae (Minnows or carps)  
Subfamily :  
Species : *Barbonymus gonionotus*  
Author : (Bleeker, 1850)

MainRef. : 007050

MainRef. : 0067050

**Environment**

Freshwater : Yes      Habitat : benthopelagic  
 Brackish : No      Migrations : potamodromous  
 Saltwater : No      Depth range : 15

**Importance**

Landing statistics: from 1,000 to 10,000 tonnes      Ref. 004931

Importance to fisheries: commercial

Main catching method

Other methods : (•) Seines      O Gillnets      (•) Castnets      O Traps      O Spears  
    O Trawls      O Dredges      O Liftnets      (•) Hooks+Lines      O Other

Used for aquaculture      commercial      Ref. 012108

Used as bait      never/rarely      Ref.

Aquarium fish      commercial      based mainly on breeding      Ref. 006299

Game fish      No      Ref.

Dangerous fish      harmless      Ref.

Electrobiology      no special ability      Ref.

**Size and age**

Maximum length (cm) (male/unsexed): 40.5 TL (female):      Ref. 008609

**Remarks**

Occurs at midwater to bottom depths in rivers, streams, floodplains, and occasionally in reservoirs. Seems to prefer standing water habitats instead of flowing waters. Inhabits the flooded forest during high water period (Ref. 12693). Feeds on plant matter (e.g. leaves, weeds, *Ipomea reptans* and *Hydrilla*) and invertebrates (Ref. 4835). A migratory species but not considered to be a long-distance migrant. Regarded as local migrant which moves from the Mekong up into small streams and canals and onto flooded areas during the rainy season and back again during receding water (Ref. 37770). Some reports indicated that upstream migration of this fish is triggered by the first rains and rising water levels. When it finds a tributary, canal or stream it moves upstream and eventually onto flooded areas. When water recedes, it migrates back into canals and streams and into the Mekong again (Ref. 37770). Often used as a pituitary donor for artificial propagation in aquaculture. Escapees from culture installations have become established in rivers and form the basis for capture fisheries on several Southeast Asian islands (Ref. 1739). Useful in cropping excessive vegetation in reservoirs (Ref. 2686). Used for lap pa (in the preparation of which the numerous small bones are ground fine) or grilled or used to make sompa. Usually marketed fresh and occasionally seen in the aquarium trade (Ref. 12693). A specimen measuring 45 cm TL (2,100 g) was reportedly caught from Dan Tchang Reservoir, Thailand on 8 July 2003 (Jean-Francois Helias, pers. comm., FISHING ADVENTURES THAILAND [mailto:fishasia@ksc.th.com]).

<b>Synonym names for <i>Barbonymus gonionotus</i></b>
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Synonym	Author	Status	Ref.
<i>Puntius gonionotus</i>	(Bleeker, 1850)	new combination	012693
<i>Barbus gonionotus</i>	Bleeker, 1850	original combination	006128
<i>Barbonymus gonionotus</i>	(Bleeker, 1850)	new combination	043281
<i>Barbodes gonionotus</i>	(Bleeker, 1850)	new combination	007050
<i>Puntius javanicus</i>	(Bleeker, 1855)	junior synonym	002686
<i>Barbus javanicus</i>	Bleeker, 1855	junior synonym	013274
<i>Barbus koilometopon</i>	Bleeker, 1857	junior synonym	006128
<i>Puntius viehoefferi</i>	Fowler, 1943	junior synonym	012693

### Common names for *Barbonymus gonionotus*

Name	Language	Country	Ref.
Chhpín	Khmer	Cambodia	036651
Trey chhpín	Khmer	Cambodia	012693
Trey chhpín brak	Khmer	Cambodia	012693
Bader putihan, Bader	Javanese	Indonesia	006107
Keputihan, Putihán	Javanese	Indonesia	006107
Tawes	Malay	Indonesia	008609
Papak	Laotian	Lao People's Dem. Rep.	004792
Pak	Laotian	Lao People's Dem. Rep.	040381
Javanese barb	English	Malaysia	005460
Javanese carp	English	Malaysia	006095
Lalawak	Malay	Malaysia	002686
Lampam jawa	Malay	Malaysia	004789
Lawak	Malay	Malaysia	002686
Silver barb	English	Philippines	012157
Tawes	Tagalog	Philippines	002858
Puntius carp	English	Thailand	006459
Pla ta pien	Thai	Thailand	042982
Pla ta pien khao	Thai	Thailand	042982
Pla ta pien khaw	Thai	Thailand	002686
Pla ta pien sai	Thai	Thailand	042982
Pla tek kheng	Thai	Thailand	042982
Tawes	English	United Kingdom	012693
Thai silver barb	English	United Kingdom	003691
Thai silver carp	English	United Kingdom	006072
Cá mè vinh	Vietnamese	Viet Nam	036625
Cá trà vinh	Vietnamese	Viet Nam	002686

### Distribution of *Barbonymus gonionotus*

Asia: Mekong and Chao Phraya basins, Malay Peninsula, Sumatra and Java (Ref. MainRef.: 027732, 27732). Occurs throughout the whole stretch on the Mekong, from the delta around the saline intrusion zone to Chiang Khong in Thailand (Ref. 37770).

Latitudinal range: 24° N - 8° S

Status of threat: NL.

Country	Status	Ref.
Bangladesh	introduced	001479
	Also Ref. 6794,42329.	
Cambodia	native	012693

Occurs in the Mekong basin (Ref. 12693,27732). Found around the Tonle Sap river and Great Lake (Ref. 36651). Not commonly taken in the dai nets of the Tonlé Sap, but much more likely to be caught in the large traps of the Great Lake (Ref. 12693). Also Ref. 1739, 7306, 8984, 36662, 33813, 37772.



**Level: species in general**

Year : 1968 Established : yes Ref. 001739  
Introduced : to Fiji from Malaysia  
Reason : aquaculture  
Comments : Reintroduced in 1984. Well established in the Rewa River basin and its tributaries where it is becoming an important food fish. Introduced also as a source of pituitary extracts for the grass carp. Also Ref. 13364.

**Level: species in general**

Year : 1972 Established : yes Ref. 006092  
Introduced : Indonesia to India  
Reason : aquaculture  
Comments : Present to a limited extent in West Bengal. The species is not popular with Indian aquaculturists (Ref. 13364).

**Level: species in general**

Year : 1963 Established : unknown Ref. 001739  
Introduced : to Indonesia from Unknown  
Reason : aquaculture  
Comments : Assumed to be introduced for aquaculture.

**Level: species in general**

Year : 1958 Established : yes Ref. 001739  
Introduced : to Malaysia from Indonesia  
Reason : aquaculture  
Comments : Poly cultured in ponds. Breeds also in rivers, lakes and in tin mining pools. Widely cultured throughout the country.

**Level: species in general**

Year : 1970 Established : no Ref. 001739  
Introduced : to Papua N Guin from Malaysia  
Reason : aquaculture  
Comments : Reported as established in 1976 (Ref. 6993). A total of 27,750 fingerlings were stocked from 1994-1995 in Emma' creek, Usino stream, Ramu, Bunam, Bunapas, Brahman, Aiyura and the Ganz and Guny Rivers (Ref. 37808). Also Ref. 6349 and 13364.

**Level: species in general**

Year : 1956 Established : yes Ref. 006096  
Introduced : to Philippines from Indonesia  
Reason : aquaculture  
Comments : Introduced as a pituitary donor (Ref. 13364). Well established in rivers and lakes, where it reproduces naturally

**Level: species in general**

Year : unknown Established : probably no Ref. 038466  
Introduced : to Singapore from Unknown  
Reason : aquaculture  
Comments :

Total = 10

Established: yes= 6

probably yes = 0



<b>Summary information (no. of records) available for <i>Barbonymus gonionotus</i></b>
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**Level:** species in general

**StockCode:** 027732

**MainRef.:** 027732

Ecology	1	Max. sizes	0	Strains	0
Food Items	40	FAO catches	15502	Diseases	1
Food consumption	0	Genetics	4	Ciguatera	0
Diet composition	1	Allele frequency	0	Ecotoxicology	0
Ration	0	Heritability	0	Metabolism	0
Predators	0	Reproduction	1	Gill area	0
Morphology	1	Spawning	1	Swimming Type	:0
Processing	1	Eggs	: 0	Swimming speed	:0
Growth/mortality	0	Egg dev't.	0	Vision	:0
Maturity	0	Larvae	:0	Brains	0
Recruitment	0	Larval dynamics	: 0	Introductions	10
L/W relat.	1	Aquaculture	0	Occurrence	46

**Level:** species in general

**StockCode:** 000300

**MainRef.:** 004792

Appearance refers to : O females O males

**DIAGNOSTIC CHARACTERS**

Body is strongly compressed. The back is elevated, its dorsal profile arched, often concave above the occiput. The head is small; the snout pointed; the mouth terminal. The barbels are very minute or rudimentary, especially the upper ones, which sometimes disappear entirely. Color when fresh is silvery white, sometimes with a golden tint. The dorsal and caudal fins are gray to gray-yellow; the anal and pelvic fins light orange, their tips reddish; the pectoral fins pale to light yellow (Ref. 4792). Very few tubercles on the snout which are not visible without magnification; snout length much less than the width of the eye socket (Ref. 37768). Anal-fin with 6-7 branches rays (Ref. 12693).

**DESCRIPTIVE CHARACTERS**

Striking features	: none	Cross section	: oval
Body shape lateral	: fusiform / normal	Dorsal head profile	: more or less straight
Operculum present	: Yes		
Type of eyes	: more or less normal		
Position/type of mouth	: terminal		

**Pigmentation on trunk and tail**

Horizontal stripes	: absent		
Vertical stripes	: absent		
Diagonal stripes	: absent		
Curved stripes	: absent		
Spots	: no spots		
Dorsal fin (D1)	: no spots or stripes	: no colored margin	
Caudal fin	: no spots or stripes	: no colored margin	
Anal fin (A1)	: no spots or stripes	: no colored margin	

## Morphology of *Barbonymus gonionotu*

### MERISTIC CHARACTERS

Scales on lateral line : 26-31  
 Scale rows below lateral line : 5.5  
 Barbels : 4

#### Dorsal fins

Dorsal attributes : no striking attributes      spines total : 4-4 soft-rays total: 8-8  
 Number of fins : 1      finlets dorsal: 0-0 finlets ventral: 0-0  
 Adipose fin : absent

#### Caudal fin

Shape of fin : Forked  
 Attributes : more or less normal

#### Anal fin

Number of fins : 1      spines total: 4-4      soft rays total: 6-7

#### Paired fins

Pectoral attributes : more or less normal  
 spines : 1      soft rays: 14-15  
 Pelvics attributes : more or less normal  
 position : adominal      before origin of D1  
 spines : 1      soft rays: 8-8

#### Body proportions: (based on picture)

Head length (% SL): 24.7  
 Maximum depth (% SL): 41.7

## Genetic information for *Barbonymus gonionotus*

**Level** : species in general      Main Ref.: 027780

Locality : Unspecified

Genetic marker(s) present

Remarks:

Several subpopulations (Kedah, Perak and Selangor) of the species in Malaysia show a high level of band sharing and low variability using DNA fingerprinting (Ref. 27780).

**Level** : species in general      Main Ref.: 030184

Locality : Central Thailand, Thailand

Chromosome number (haploid) :25      Ref: 030168

Chromosome number (diploid) :50      Ref: 030168

Genetic marker(s) present : No

Chromosome arm no : 70      Ref: 030168

**Level** : species in general      Main Ref.: 030184

Locality : Central Thailand, Thailand

Chromosome number (haploid) :25      Ref: 030184

Chromosome number (diploid) :50      Ref: 030184

Genetic marker(s) present : No

Chromosome arm no : 70      Ref: 030184

**Level** : species in general      Main Ref.: 034370

Locality : Central Thailand, Thailand

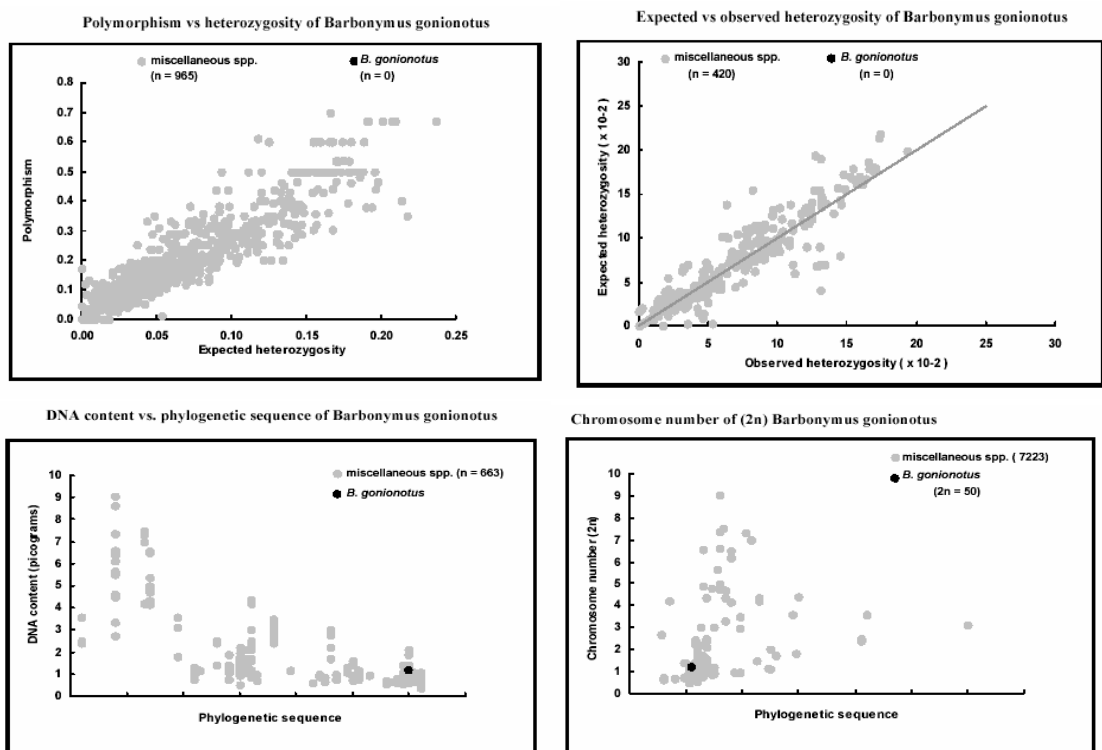
Chromosome number (haploid) :25

Chromosome number (diploid) :50      Ref: 034741

Genetic marker(s) present : No

Chromosome arm no : 70      Ref: 034741

Remarks: Also in Ref. 034370. Listed as *Puntius gonionotus*.



**Weight proportions and chemical composition of *Barbonymus gonionotus***

Level : species in general

Stockcode: 000300

Locality : Not specified

MainRef.: 002686

Comment: Flesh of good quality, but has a lot of small bones. Often used in Laos for 'Lap pa', a preparation in which the small bones are finely ground and cease to be a nuisance. The fish may be grilled or used to make 'Sompa'.

**FAO Aquaculture Production Data for *Barbonymus gonionotus***

Country (Area)		1984	1985	1986	1987	1988	1989	1990
		1991	1992	1993	1994	1992	1992	1992
		1998	1999	2000	2001			
Brunei Darussalam (4)	(t)	0	0	0	0	0	0	0
	(US\$'000)	0	0	0	0	0	0	0
	(t)	0	0	0	0	0	0	0
	(US\$'000)	0	0	0	0	0	0	0
	(US\$'000)	0	0	0	0			
Cambodia (4)	(t)	620	1,150	150	150	1,150	2,123	1,150
	(US\$'000)	744	1,610	1,610	1,610	3,540	1,610	5,390
	(t)	2,570	3,280	2,830	2,930	3,370	3,455	4,424
	(US\$'000)	5,911	7,216	6,509	6,739	7,414	7,601	9,290
	(US\$'000)	4,845	5,500	5,390	5,790			
(US\$'000)	9,690	10,450	10,241	11,001				

Indonesia (4)	(t)	20,355	23,120	22,877	23,120	23,120	23,120	28,048
	(US\$'000)	24,426	27,744	32,028	27,744	41,600	52,500	70,120
	(t)	19,867	21,113	21,989	23,388	27,591	33,186	23,913
	(US\$'000)	51,654	54,894	57,171	60,809	71,737	86,284	62,174
	(t)	23,124	28,806	31,886	26,119			
	(US\$'000)	60,122	73,455	79,715	65,298			
Indonesia (4)	(t)	0	0	0	0	0	0	0
	(US\$'000)	0	0	0	0	0	0	0
	(t)	0	32	0	0	2	2	0
	(US\$'000)	0	83	0	0	5	5	0
	(t)	0	0	81	132			
	(US\$'000)	0	0	203	330			
Malaysia (4)	(t)	756	1,260	970	747	1,260	1,754	1,260
	(US\$'000)	1,068	1,421	1,421	1,421	2,702	1,421	2,290
	(t)	2,063	2,505	1,481	1,465	1,428	1,609	2,087
	(US\$'000)	2,858	5,185	3,165	2,877	2,995	3,300	3,883
	(t)	1,807	1,788	1,673	1,013			
	(US\$'000)	2,379	2,348	2,104	1,352			
Thailand (4)	(t)	4,915	7,311	8,791	11,145	12,973	13,370	14,695
	(US\$'000)	4,185	5,144	6,206	8,038	9,530	9,661	10,347
	(t)	16,275	23,839	21,939	24,133	27,432	37,615	35,100
	(US\$'000)	12,119	19,794	19,860	21,995	26,140	32,832	30,154
	(t)	38,951	41,289	46,276	46,760			
	(US\$'000)	26,303	32,197	40,504	42,084			

#### **FAO Aquaculture Production Data for *Barbonymus gonionotus***

Country (Area)		<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
		<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1992</b>	<b>1992</b>	<b>1992</b>
		<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>			
	(mt)	26,646	32,841	33,488	32,934	37,473	38,247	46,983
Total: 6	(US\$'000)	30,423	35,919	40,967	43,016	57,372	69,252	88,147
	(mt)	40,775	50,769	48,239	51,916	59,823	75,867	65,524
	(US\$'000)	72,543	87,172	86,706	92,420	108,291	130,022	105,502
	(mt)	68,727	77,383	85,306	79,814			
	(US\$'000)	98,494	118,451	132,768	120,064			

<b>General information on the reproduction of <i>Barbonymus gonionotus</i></b>
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**Level** : species in general,

**StockCode** : 000300

**Mode and Type of Reproduction**

Mode : dioecism

Fertilization : external

Spawning frequency

Batch spawner : No

Reproductive guild : nonguarders Open water/substratum egg scatterers

Assuming same reproductive mode as *B. schwanenfeldii* (RF).

**Spawning Information for *Barbonymus gonionotus***

**Locality** : Mekong mainstream

**Stockcode:** 000300

**Season** (% of mature females; 111= presence of mature females) :

**Main Ref.:** 037770

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Data Ref.:
		111	111	111	111							

Comment: Based on the presence of developed eggs during the period March to June, although some report that eggs can be found throughout the year. An opportunistic spawner.

**Ecology of *Barbonymus gonionotus***

**StockCode:** 000300

**000286**

**Main Ref.:** 013497

**Level** : species in general

**StockCode:** 000300

**000286**

**Main Ref.:** 013497

**Habitats**

Streams : No Lake: Yes Cave: No

Estuaries/lagoons/brackish seas: No

Intertidal : No soft : No rocky : No mangroves/marchs/swamps: No

Marine : No oceanic : No neritic : No coral reefs: No

tropical soft bottom : No hard bottm: No seagrass beds: No macrophyte: No

**Feeding**

Feeding Type : plants/detritus+animals (troph. 2.2-2.79)

Ref: 012497

Feeding Habit : grazing on aquatic plants

**Additional remarks**

Feeds on plants, insects and detritus (Ref. 13497)

Food items for	<i>Barbonymus gonionotus</i>			
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**Level: species n general** **StockCode: 000300**

Food item				Ref.
others	n.a./others	Bacteria	<i>Leuconostoc</i>	042329
		Diffugiidae	<i>Diffugia</i>	042329
<b>plants</b>				
other plants	benthic algae/weeds	Hydrocharitaceae	<i>Hydrilla</i>	004835
	terrestrial plants	Convolvulaceae	<i>Ipomoea reptans</i>	004835
phytoplankton	blue-green algae	Chroococcaceae	<i>Chroococcus</i>	042329
		Cyanophyceae	<i>Microcystis</i>	027822
		Oscillatoriaceae	<i>Oscillatoria</i>	042329
		Phormidiaceae	<i>Spirulina</i>	042329
	diatoms	Eunotiaceae	<i>Actinella</i>	042329
		Naviculaceae	<i>Navicula</i>	042329
	dinoflagellates	Euglenaceae	<i>Trachelomonas</i>	042329
		Euglenaceae	<i>Euglena</i>	042329
		Euglenaceae	<i>Phacus</i>	042329
	green algae	Centratractaceae	<i>Pseudotetraedron</i>	042329
		Chlorophyceae	<i>Sphaerocystis</i>	027822
		Chlorophyceae	<i>Closterium</i>	027822
		Chlorophyceae	<i>Oedogonium</i>	027822
		Chlorophyceae	<i>Pediastrum</i>	027822
		Chlorophyceae	<i>Pleurotaenium</i>	027822
		Chlorophyceae	<i>Spirogyra</i>	027822
		Chlorophyceae	<i>Scenedesmus</i>	027822
		Mesotaeniaceae	<i>Mesotaenium</i>	042329
		Micractiniaceae	<i>Echinosphaerella</i>	042329
		Oocystaceae	<i>Ankistrodesmus</i>	042329
		Oocystaceae	<i>Quadrigula</i>	042329
		Ophiocytaceae	<i>Ophiocytium</i>	042329
		Ulotrichaceae	<i>Ulothrix</i>	042329
<b>zoobenthos</b>				
benth. crust.	ostracods	Cyprididae	<i>Cypris</i>	027822
insects	insects	Trichoceridae	<i>Trichocerca</i>	042329
<b>zooplankton</b>				
other plank.	n.a./other plank.	Lecanidae	<i>Monostyla</i>	027822
invertebrates	Invertebrates			
		Rotifera	<i>Moina</i>	027822
plank. crust.	plank. copepods	Calanoida	<i>Diaptomus</i>	027822
		Crustacea	<i>Daphnia</i>	042329
		Crustacea	<i>Diaphanosoma</i>	042329
		Crustacea	<i>Nauplius</i>	042329
		Cyclopoida	<i>Cyclops</i>	027822
plank. crust	Notommatidae Rotifer	Rotifers Rotifers	<i>Cephalodella</i>	042329
			<i>Lecane</i>	042329
			<i>Brachionus</i>	042329
			<i>Keratella</i>	042329

## Length-Weight relationships of *Barbonymus gonionotus*

(  $W = a * L^b$  with Length in cm and Weight in g )

Locality : Indonesia, Jatiluhur Reservoir, West Java

StockCode: 000300

Length range: 14.5 - TL<sub>150</sub> Sample size: 150

MainRef. : 008609

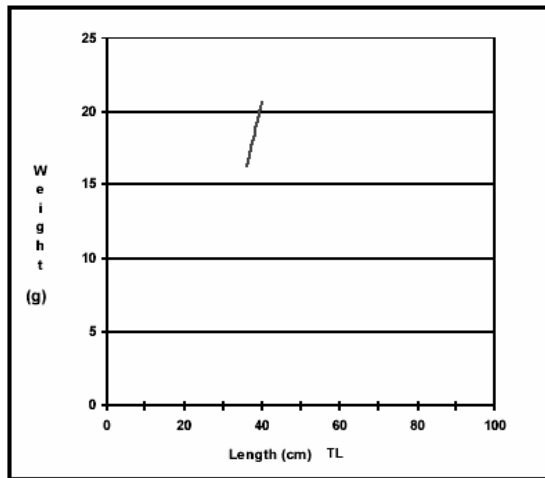
a : 0.0413 Correlation coefficient: 0.995

Ref. : 008609

b : 2.231

Sex: unsexed

L-W relationship(s) of *Barbonymus gonionotus*



This graph is meant to provide a general impression of the relationship between body length and weight in this species. See the L-W Table for details.

This graph is meant to provide a general impression of the relationship between body length and weight in this species. See the L-W Table for details

## Diseases reported for *Barbonymus gonionotus*

StockCode: 000300

Main Ref. : 042533

Parasitic infestations (protozoa, worms, etc.) , Sporozoa-infection (*Myxobolus* sp.)

Ref. : 041805

Causative agent : *Myxobolus* sp.

Occurrence : Rajshani, Bangladesh, 1993

Remarks : Infestation commonly occurs in the gills and skin.

Total = 1

**FAO Annual Catch Data (in tonnes) for *Barbonymus gonionotus***

<b>Country</b>									
<b>1950</b>	<b>1951</b>	<b>1952</b>	<b>1953</b>	<b>1954</b>	<b>195</b>	<b>1956</b>	<b>1957</b>	<b>1958</b>	<b>1959</b>
<b>1960</b>	<b>1961</b>	<b>1962</b>	<b>1963</b>	<b>1964</b>	<b>1965</b>	<b>196</b>	<b>1967</b>	<b>1968</b>	<b>1969</b>
<b>1970</b>	<b>1971</b>	<b>1972</b>	<b>1973</b>	<b>1974</b>	<b>1975</b>	<b>1976</b>	<b>1977</b>	<b>1978</b>	<b>1979</b>
<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>
<b>1990</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>
<b>2000</b>	<b>2001</b>								
Indonesia			FAO	:	4				
8,451	8,445	9,530	11,205	10,370	11,823	13,663	14,790	11,703	16,199
15,578	17,439	18,079	16,397	17,891	17,059	20,998	21,708	17,784	16,924
15,525	15,084	14,996	10,105	12,767	8,652	12,598	12,346	12,346	16,550
19,431	22,826	21,882	17,941	17,677	20,836	21,647	18,747	22,633	19,203
15,380	14,964	16,082	15,027	19,084	18,102	19,601	19,469	20,189	17,939
17,124	17,080								
<hr/>									
Total:	1								
8,451	8,445	9,530	11,205	10,370	11,823	13,663	14,790	11,703	16,199
15,578	17,439	18,079	16,397	17,891	17,059	20,998	21,708	17,784	16,924
15,525	15,084	14,996	10,105	12,767	8,652	12,598	12,346	18,663	16,550
19,431	22,826	21,882	17,941	17,677	20,836	21,647	18,747	22,633	19,203
15,380	14,964	16,082	15,027	19,084	18,102	19,601	19,469	20,189	17,939
17,124	17,080								



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