

(1)

***Carassius auratus* (Linnaeus, 1758)**

Carassius
21 16
Carassius
31-25 *auratus* (Linnaeus, 1758)
5 6-5 18-15
.48-45
.4-4 .30-28
0.99
3.41
.2.41

(6) *Carassius* Nilsson, 1832
. (7) (8) (12)

.(9)

Cyprinus auratus Linnaeus,

Carassius 1758
.(15) *auratus*
Carassius auratus gibelio *Carassius gibelio* Synonyms
Carassius auratus auratus

.(12)

(10)

(12)

(6) Egirdir

.(13)

.(11)

Buldon

(3,1)

(4)

(2)

Carassius auratus

(1)

(14)

2008

.(2)

21

16

Body ratios

(SL/BD)

(HL/HD)

(SL/HL)

(ID/ED)

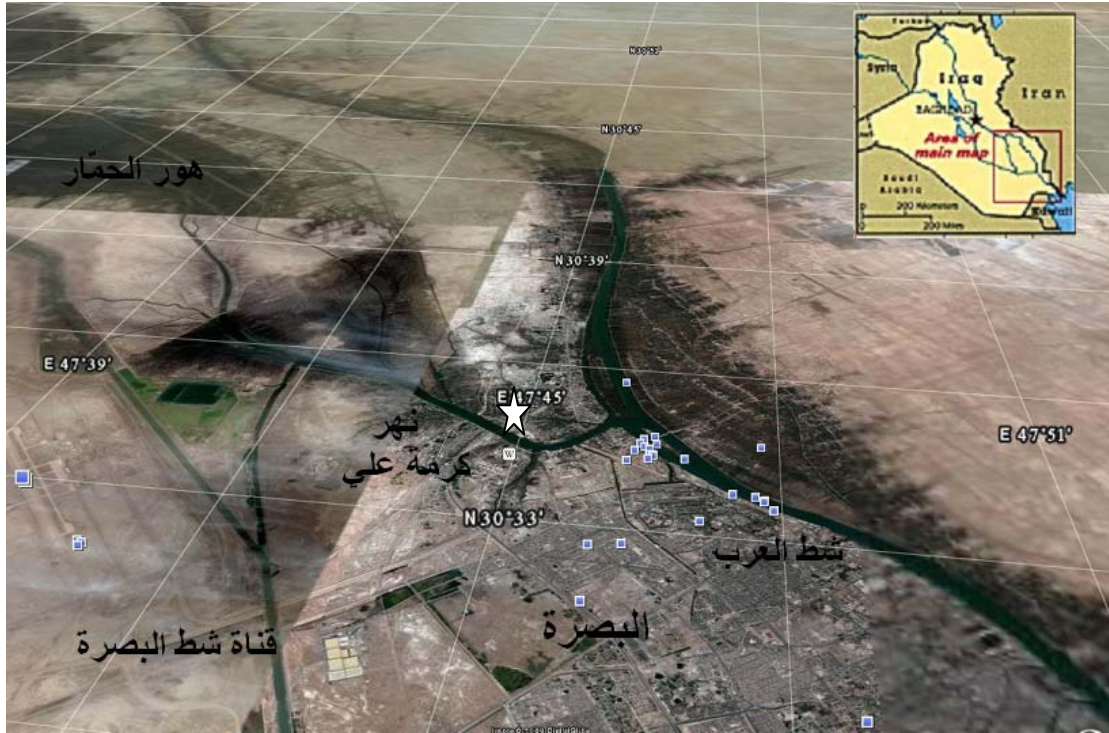
(HL/ED)

.(CPL/CPD)

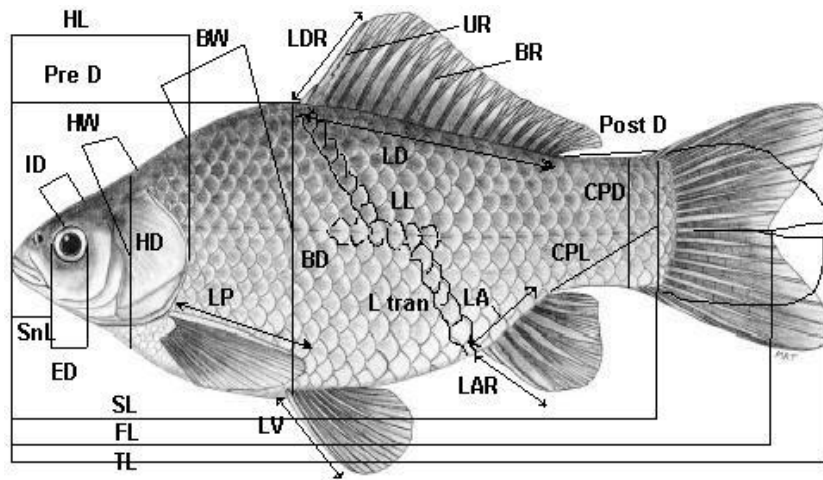
Carassiuss

(1) *C. auratus*

(2)



(1)



(2)

- . :BW . :BD . :FL . :SL . :TL
- . :ED . :SnL . :HW . :HD . :HL
- . :PostD . :PreD . :ID
- . :LV . :LP . :LA . :LD
- . :LAR . :LDR .
- . :L tran . :LL . :CPD . :CPL
- . :BR . :UR .

(3) 14-10

89

(1)

.(4) 4-4

6

30-25

18-15

3

5

5

6-5

3

1

48-45

8-7

17-14

.(6) 30-28

(5)

(2)

250-115

89

116.56

7.86

41.39

12.18

38.92

(3)

0.99

3.47

(1)

\pm			
1.19 ± 29.08	31-25		
0 ± 6	6		
0 ± 5	5		
0.35 ± 5.85	6-5		
0 ± 3	3		
1.08 ± 16.73	18-15		
0 ± 3	3		
0.24 ± 5.06	6-5		
0 ± 1	1		
0.89 ± 15.51	17-14		
0 ± 1	1		
0.32 ± 7.88	8-7		
1.21 ± 45.66	48-45		
0.5 ± 28.97	30-28		

(2)

	%	
±		
1.98 ± 116.56	120.0-114.62	
1.92 ± 41.39	43.83-37.07	
0.77 ± 19.96	20.46-18.1	
1.26 ± 29.48	30.95-26.92	
1.16 ± 26.02	27.72-24.52	
0.68 ± 18.03	18.84-16.62	
0.15 ± 7.86	8.08-7.59	
0.48 ± 8.49	9.05-7.76	
0.50 ± 9.77	10.88-9.23	
0.98 ± 47.68	48.33-45.33	
2.80 ± 16.73	23.28-14.0	
0.78 ± 38.92	39.7-37.61	
0.41 ± 12.18	12.88-11.53	
0.78 ± 19.22	20.52-18.4	
0.88 ± 21.98	23.24-20.86	
0.68 ± 18.86	20.04-18.13	
0.75 ± 17.04	18.19-15.72	
0.57 ± 15.70	16.62-14.7	
0.45 ± 15.67	16.08-14.71	

(3)

±		
0.11 ± 2.41	2.69-2.28	BD \ SL
0.15 ± 3.39	3.71-3.23	HL \ SL
0.03 ± 1.12	1.18-1.06	HD \ HL
0.28 ± 3.47	3.98-3.03	ED \ HL
0.18 ± 3.01	3.2-2.63	ID \ HL
0.11 ± 1.14	1.36-1.05	ED \ ID
0.02 ± 0.99	1.03-0.96	CPD \ CPL



Carassius auratus

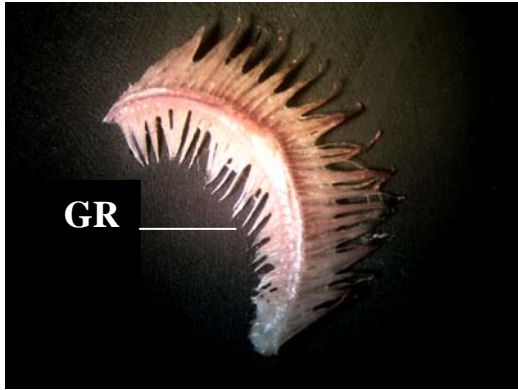
(1)



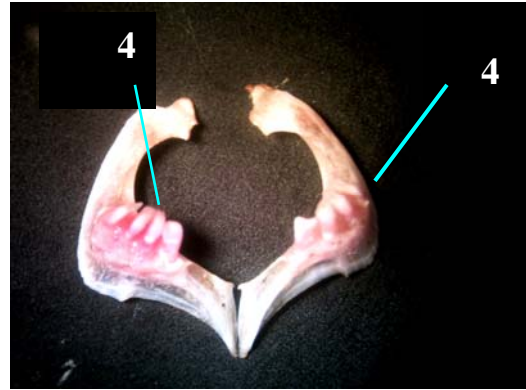
(3)



(2)



(5)



(4)



(6)

C. carassius

C. auratus

Carassius

(9) (14)

(3)

29-

11-10

6-5

28

6

8-6

5

33-23

53-37

34-31

31-28

C. auratus

(10)

20-16

29-27

30-29

(12)

.4-4

3

18

3

6

28.51-27.76

37.96-36.6

(4)

5

8-7

16-13

18-16

6-5

54-38

5

Carassius

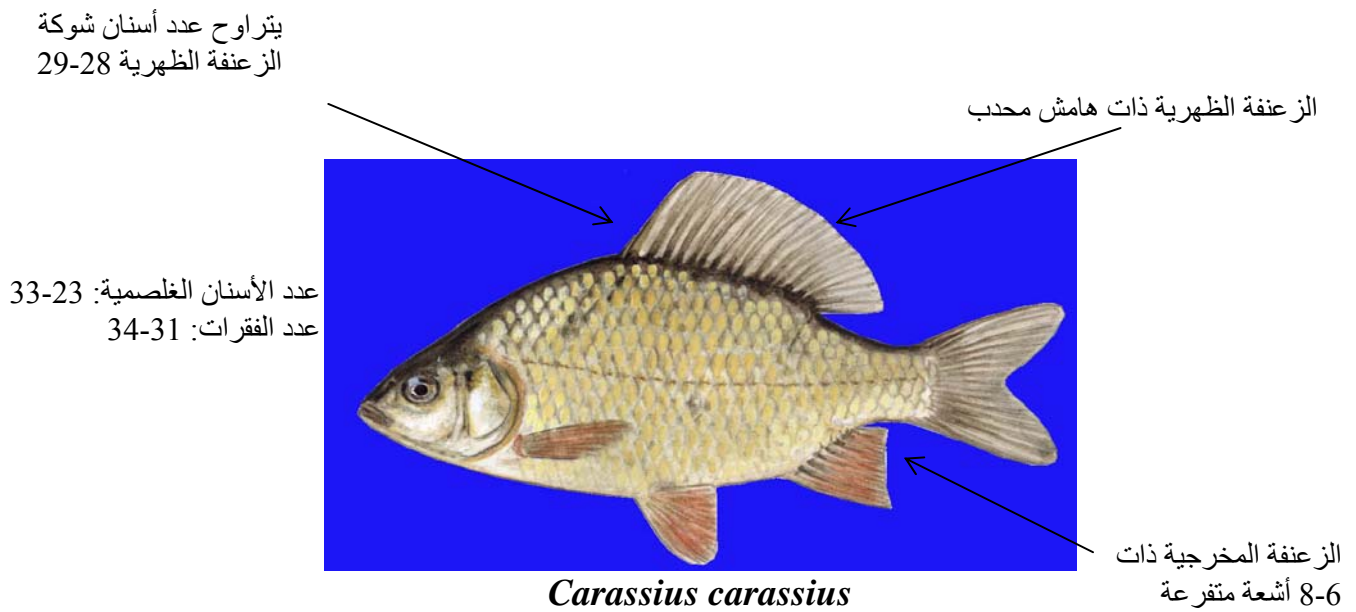
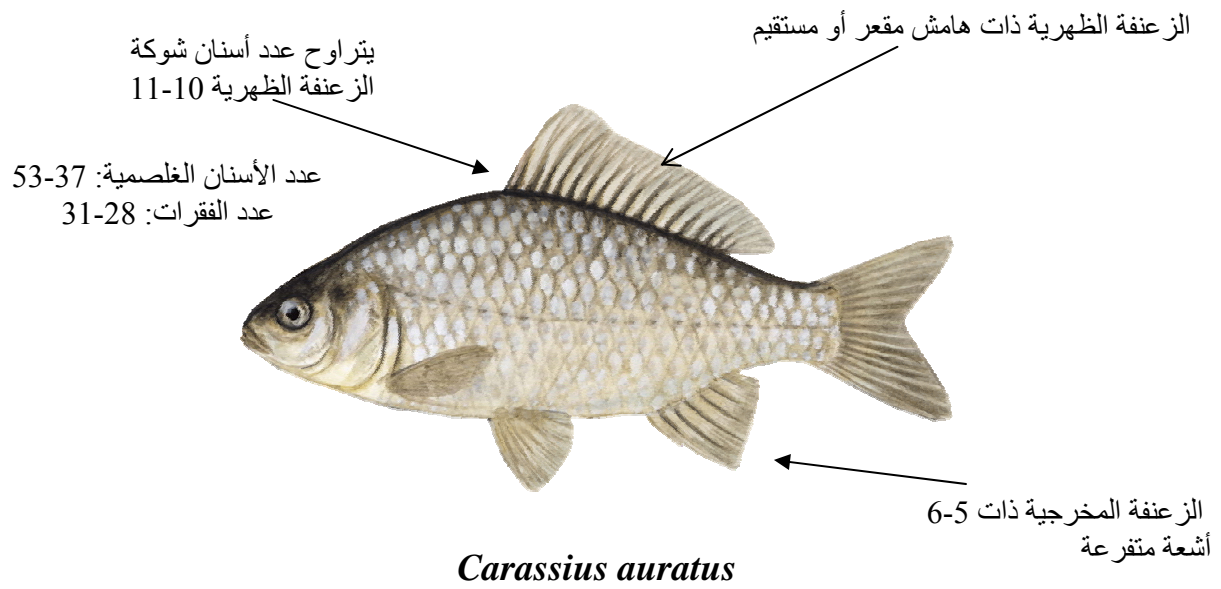
(7)

.48-45

(5) (8)

C. auratus

(12)



(14)

C. carassius

C. auratus

(3)

(9)

- 74 .(2001) -1
Carassius auratus
- .(2005) -2
Carassius auratus
. 182 .
- .(2005) -3
Carassius carassius
. 53 .
- .(2008) -4
Carassius auratus *Carassius auratus gibelio*
auratus
.122-107 : 1 21
- 5- Abdoli, A. (1999). The inland water fishes of Iran. ISBN:964-6902-01/4 377p.
- 6- Bostanci, D. ; Polat, N. ; Akyurek, M. (2007). Some biological of the Crucian Carp, *Carassius gibelio* Bloch, 1782 inhabiting aspects in Egirdir Lake. International Journal of Natural and Engineering Sciences. 1(3): 55-58.
- 7- Coad, B.W. (1991). Fishes of the Tigris-Euphrates basin: A critical check - list. Ichthyology section. Candian Mus. Nat. Publ., 68: 1-29.
- 8- Coad, B.W. (1998). Systematic biodiversity in the freshwater fishes of Iran. tal. J. Zool., 65: 101-108.
- 9- Coad, B.W. (2006). Freshwater fishes of Iran www.briancoad.com.
- 10- Pullan, S. and Ssmith, P. J. (1987). Identification of hybrids between koi (*Cyprinus carpio*) and goldfish (*Carassius auratus*). New Zealand Journal of Marine and freshwater Research, Vol. 21: 41-46.
- 11- Sari, H. M. ; Balik, S. ; Ustaoglu, M. R. ; Ilhan, A. (2008). Population structure growth and Mortality of *Carassius gibelio* (Bloch, 1782) in Buldan Dam Lake. Turkish Journal of Fisheries and Aquatic. 8: 25-29

- 12- Sasi, H. and Balik, S. (2003). The distribution of three exotic fishes in Anatolia. Turk J Zool, 27: 319-322.
- 13- vetešník, I. ; papoušek, I. ; halačka, K. ; lusková, V. ; mendel, J. (2007). Morphometric and genetic analysis of *Carassius auratus* complex from an artificial wetland in Morava River floodplain, Czech Republic.
- 14- Wheeler, A. (1978). Key to the fishes of Northern Europe. Frederick warne & Co. Ltd. 380p.
- 15- Williams, C. And Bonner, T. (2005). Texas freshwater fishes. Texas state University-San Marcos, Department of Biology. www.bio.textate.edu.

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Morphological study for gold fish *Carassius auratus* (Linnaeus, 1758) from Qarmat Ali river, southern Iraq

Abbas Jassim Al-Faisal

Department of Vertebrata, Marine Science Centre, Basrah University

SUMMARY

Biometry characters of genus *Carassius* from Qarmat Ali river southern Iraq were studied, the results showed that all specimens belong to gold fish *Carassius auratus* (Linnaeus, 1758). Number of scales in the lateral line ranged from 25 to 31. Number of dorsal branched rays varied from 15 to 18, anal fin with 5-6 branched rays usually 5. Gill rakers long varied from 45 to 48. Total vertebrae 28-30. Pharyngeal teeth were in one row 4-4. Body ratios of fishes were calculated, its means ranged from 0.99 of CPL/CPD to 3.47 of HL/ED, while was 2.41 of SL/BD.

Key word: *Carassius auratus*, meristic, morphometric characters, southern Iraq.