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Length-Weight Relationships of Freshwater Fishes of Thailand

From River and Impoundment Surveys
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International Center for Aquaculture
Agricultural Experiment Station
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Length-Weight Relationships of Freshwater Fishes of Thailand[1]

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LENGTH-WEIGHT data on fishes are useful to biologists for a variety of purposes. The data presented are especially valuable because they are derived from measurements of fishes taken from lakes, swamps, and reservoirs in major river systems throughout Thailand over an extended period of time. Since the data are derived from fishes taken from all types of natural waters over a period of years, they can be considered typical average weights of that species for each of the given lengths. Along with length-weight data the condition index (K) is presented and was derived as follows:

$$K = \frac{W \times 10^5}{L^3}$$ where:

W = weight in grams,

L = total length in centimeters

K is an expression of weight of a fish per centimeter of length. Since the characteristic shape of some fish changes with increase in length, K is not a constant for a species, but changes gradually with increase in length and age of fish and serves primarily to demonstrate the length where this change in body shape is most evident.

A more meaningful expression of condition can be obtained by calculation of another measure of condition of a population or of an individual fish. This is the relative condition index of Le Cren (K_n):[3]

$$K_n = \frac{W}{\hat{W}}$$, where:

W = weight of an individual or the average weight of individuals of a certain length, and

$\hat{W}$ = the calculated average weight for the above length from the equation $W = aL^b$, where a and b are constants.

$\hat{W}$ is the calculated average or standard weight for a given total length, L, of a particular species under conditions in Thailand, and are presented in the tables that follow. K_n may be calculated from these standard $\hat{W}$'s, and expresses condition, or robustness of a fish as greater than, equal to, or less than the standard weight for a given length.

Calculated weights are from general equations of the form

$$\hat{W} = aL^b$$

where $\hat{W}$ = weight in grams, L = total length in centimeters, a = a constant and b an exponent. This relationship was calculated in its linear logarithmic form where

$$\text{Log}_{10}\hat{W} = \log_{10}a + b \log_{10}L$$

Very often one equation will not adequately describe the complete range of lengths and weights for a particular species. As a result two or even three equations are sometimes used to describe a set of data. The range over which a single standard length-weight equation was computed was selected by determining the point where the increment of increase or decrease in the condition index changed significantly in magnitude. The parameters log (a) and b for each equation and the intervals to which they apply are presented in the Appendix.

For example, from the standard table, *Tilapia nilotica* of 12 cm total length has a standard $\hat{W}$ = 32.3 grams. If pla nin from a rice field with a total length of 12 cm weighs 40.0 grams, then

$$K_n = \frac{40.0}{32.3} = 1.24,$$

indicating that the fish from the rice field was 24 per cent heavier at the same length than the standard average for the entire country. However, if the weight of a 12-cm pla nin taken from a swamp during the dry period has a weight of 28.0 grams, then

$$K_n = \frac{28.0}{32.3} = 0.87$$

indicating that the fish weighed only 87 per cent as much (or 13 per cent less) than the average and is growing very slowly or even losing weight. This may be due to overcrowding of fish, reduction in food due to gradual reduction in water area during the dry period, or to other unfavorable conditions for fish growth.

A centimeter grouping may be too large for a meaningful comparison of estimated and observed weights. For example, if a fish is 12.3 cm, its estimated weight can be computed using the log (a) and b values listed in the Appendix.

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[3] Le Cren, E. D. 1951. The Length-Weight Relationship and Seasonal Cycle in Gonad Weight and Condition in the Perch, *Perca fluviatilis*. J. Animal Ecol. 20(2):201-219.

In the case of pla nin, the estimated weight ($\hat{W}$) would be 35.07 for a 12.3 cm fish.

$\hat{W}$ = 35.07 = antilog 1.5449 = −2.03 + 3.28 log 12.3

Seasonal changes in condition as fish approach the spawning period may increase their weight by an average of 10 per cent without corresponding changes in length, thus giving K_n values above 1. This is due to gradual increase in weight of the gonads, which is followed by sharp decrease in body weight immediately following spawning. There will be, in certain species, differences in condition due to sex of the fish. This is often related to their role in spawning. In certain species such as tilapia, the female grows slowly during the spawning period because of the energy required for frequent spawning.

K_n may be used as an indication of relative rapidity of growth, because the weight per unit length of a fish is greater when it is growing rapidly than when growing slowly. That is, the maximum depth and maximum width, and consequently the volume and weight of a fish, is greater when growth is rapid, producing a relatively short, heavy fish in "good condition." Conversely under unfavorable growth conditions, a fish appears long and thin, and in "poor condition." Under prolonged periods of starvation the fish loses in girth and weight, while the bony skeleton prevents much change in length. Relative condition of fishes thus may often summarize average, good or poor conditions for growth in a given body of water, expressed by K_n values of 1.0, above 1.0 and below 1.0 respectively.

Poor condition of individual fish in a population having average or good condition may be caused by parasites, disease, or abnormal physiological problems.

Length-weight data are tabulated for each species in centimeters and grams. Data consists of the centimeter length, the number of fish measured in this centimeter length, the minimum and maximum weights, the average weight, the computed standard weight or $\hat{W}$ and the condition index K. Species are listed alphabetically by scientific name.

The computer program previously used to calculate length-weight of Alabama fishes (1964, 1965) was modified for this study by Wayne E. Swingle of the Marine Resources Division of the Alabama Department of Conservation, who also prepared the data for processing. Assisting in the preparation of the report were Drs. W. D. Davies and E. W. Shell of the International Center. Credit is also due to Dr. R. M. Patterson, Research Data Analysis, Auburn University Agricultural Experiment Station for suggestions and supervision of the data computations.

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INDEX TO SPECIES OF FISHES OF THAILAND

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LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Acanthopsis choirorhynchos*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	6	1.0	1.0	1.0	1.2	2.9
8	9	1.0	3.0	1.9	1.8	3.7
9	20	1.0	5.0	3.3	2.5	4.5
10	24	2.0	6.0	3.6	3.5	3.6
11	20	2.0	6.0	4.5	4.7	3.4
12	15	4.0	10.0	6.3	6.1	3.7
13	6	4.0	11.0	6.5	7.0	3.0
14	4	11.0	14.0	13.0	10.2	4.8
15	7	10.0	22.0	15.3	14.5	4.5
16	6	14.0	31.0	21.0	20.1	5.1
17	1	21.0	21.0	21.0	27.3	4.3
18	1	32.0	32.0	32.0	36.4	5.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Albulichthys albuloides*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	3.0	3.0	3.0	2.1	13.9
7	6	3.0	8.0	4.2	3.3	12.1
8	17	4.0	8.0	4.9	4.9	9.5
9	28	5.0	9.0	6.4	6.9	8.8
10	20	7.0	12.0	9.4	9.4	9.4
11	9	11.0	16.0	13.7	12.5	10.3
12	9	15.0	21.0	17.2	16.1	10.0
14	1	30.0	30.0	30.0	25.4	10.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Amblyrhynchichthys truncatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	7	1.0	2.0	1.1	0.8	9.1
6	3	2.0	2.0	2.0	1.5	9.3
7	9	1.0	4.0	2.0	2.5	5.8
8	8	3.0	5.0	3.6	3.9	7.1
9	11	4.0	6.0	5.3	5.7	7.2
10	20	6.0	13.0	8.3	8.1	8.3
11	15	8.0	17.0	11.3	11.2	8.5
12	10	10.0	22.0	16.3	14.9	9.4
13	6	19.0	30.0	23.7	19.4	10.8
14	13	20.0	34.0	25.9	24.8	9.4
15	18	26.0	47.0	32.2	33.2	9.5
16	25	31.0	63.0	41.2	40.5	10.0
17	32	28.0	70.0	50.6	48.7	10.3
18	20	52.0	66.0	59.6	58.1	10.2
19	6	30.0	78.0	64.5	68.6	9.4
21	1	78.0	78.0	78.0	93.2	8.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Anabas testudineus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	3	3.0	3.0	3.0	2.6	24.0
6	4	3.0	4.0	3.2	4.4	15.0
7	5	5.0	9.0	7.0	7.0	20.4
8	7	8.0	15.0	11.6	10.5	22.6
9	3	14.0	16.0	15.3	15.0	21.0
10	16	17.0	24.0	21.1	20.7	21.1
11	33	18.0	39.0	28.5	27.6	21.4
12	29	28.0	47.0	37.1	35.8	21.5
13	26	34.0	54.0	45.4	45.6	20.7
14	22	41.0	74.0	56.9	57.0	20.7
15	7	31.0	78.0	65.6	70.2	19.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Barbichthys laevis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
9	1	8.0	8.0	8.0	7.4	11.0
10	3	10.0	10.0	10.0	9.6	10.0
11	6	10.0	14.0	11.7	12.2	8.8
12	4	13.0	18.0	14.7	15.1	8.5
13	3	18.0	20.0	19.3	18.4	8.8
14	4	20.0	26.0	22.7	22.2	8.3
15	2	34.0	38.0	36.0	36.4	10.7
16	4	41.0	46.0	43.7	42.9	10.7
17	11	39.0	56.0	49.5	50.0	10.1
18	12	50.0	66.0	59.1	57.8	10.1
19	5	40.0	80.0	66.8	75.5	9.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Barilius guttatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	1	1.0	1.0	1.0	0.6	37.0
4	4	1.0	1.0	1.0	1.1	15.6
5	1	1.0	1.0	1.0	1.7	8.0
6	5	2.0	3.0	2.6	2.4	12.0
7	2	3.0	3.0	3.0	3.3	8.7
9	1	8.0	8.0	8.0	5.5	11.0
12	1	10.0	10.0	10.0	9.9	5.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Barilius nanensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	3.0	3.0	3.0	1.8	13.9
7	2	3.0	3.0	3.0	2.7	8.7
8	6	2.0	4.0	3.5	3.8	6.8
9	4	4.0	9.0	5.7	5.1	7.9
10	4	6.0	8.0	6.7	6.6	6.7
11	8	6.0	10.0	7.4	8.4	5.5
12	7	10.0	12.0	10.6	10.5	6.1
14	6	15.0	18.0	16.7	15.4	6.1
15	2	18.0	19.0	18.5	18.4	5.5
16	1	30.0	30.0	30.0	21.6	7.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Botia hymenophysa*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	9	1.0	1.0	1.0	1.1	15.6
5	20	1.0	3.0	1.9	1.8	15.2
6	58	1.0	6.0	2.8	2.7	13.1
7	165	3.0	6.0	4.1	3.9	12.1
8	34	3.0	8.0	5.1	5.4	10.0
10	4	15.0	17.0	16.0	15.0	16.0
11	9	16.0	25.0	19.7	20.5	14.8
12	5	25.0	34.0	28.8	27.3	16.7
13	3	34.0	39.0	35.7	35.4	16.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Botia modesta*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	0.9	8.0
6	15	1.0	3.0	2.1	1.7	9.6
7	19	2.0	5.0	2.7	2.9	7.8
8	11	3.0	5.0	3.8	4.4	7.5
9	7	5.0	10.0	7.4	6.5	10.2
10	4	10.0	14.0	11.2	9.2	11.2
11	5	8.0	17.0	12.2	12.6	9.2
12	2	17.0	25.0	21.0	16.8	12.1
13	1	20.0	20.0	20.0	21.8	9.1
14	1	35.0	35.0	35.0	27.8	12.7
15	2	37.0	40.0	38.5	34.9	11.4
22	1	110.0	110.0	110.0	122.3	10.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Chanda baculis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	3.0	3.0	3.0	2.6	24.0
6	12	2.0	4.0	3.2	3.3	15.0
7	4	4.0	5.0	4.5	4.1	13.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Chanda siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	137	1.0	6.0	2.0	1.9	16.4
6	108	1.0	5.0	3.1	2.7	14.4
7	33	2.0	7.0	3.4	3.7	10.1
8	1	5.0	5.0	5.0	5.0	9.8
10	1	14.0	14.0	14.0	13.5	14.0
11	1	20.0	20.0	20.0	20.5	15.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Chanda wolffii*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	9	1.0	2.0	1.7	1.0	26.0
5	56	1.0	4.0	1.9	1.9	15.3
6	52	1.0	6.0	3.1	3.1	14.2
7	43	2.0	9.0	5.0	4.8	14.6
8	24	4.0	15.0	7.5	6.9	14.7
9	19	7.0	14.0	10.7	9.6	14.7
10	35	10.0	19.0	13.5	12.9	13.5
11	58	11.0	23.0	18.8	18.7	14.1
12	30	19.0	29.0	25.1	24.5	14.5
13	44	24.0	41.0	31.8	31.5	14.5
14	35	28.0	49.0	38.5	39.7	14.0
15	8	40.0	68.0	54.1	49.2	16.0
16	7	50.0	70.0	62.0	60.2	15.1
18	1	78.0	78.0	78.0	86.9	13.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Chelonodon* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	9	1.0	5.0	2.2	1.9	17.8
6	4	2.0	10.0	4.7	3.8	22.0
7	1	10.0	10.0	10.0	6.6	29.1
8	4	8.0	20.0	14.5	10.9	28.3
9	1	16.0	16.0	16.0	16.9	21.9
10	2	20.0	21.0	20.5	25.0	20.5
11	7	26.0	45.0	37.9	35.5	28.4
12	4	42.0	55.0	48.7	49.1	28.2
13	5	49.0	70.0	62.4	66.0	28.4
14	1	70.0	70.0	70.0	86.9	25.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cirrhinus* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	1	5.0	5.0	5.0	5.8	9.8
11	1	15.0	15.0	15.0	15.4	11.3
12	2	16.0	22.0	19.0	20.0	11.0
13	13	23.0	34.0	26.8	25.5	12.2
14	32	24.0	40.0	32.4	32.0	11.8
15	30	29.0	47.0	39.4	39.5	11.7
16	17	35.0	61.0	49.1	48.1	12.0
17	10	53.0	64.0	58.0	57.8	11.8
18	10	40.0	80.0	65.0	68.8	11.1
19	11	80.0	98.0	88.3	81.1	12.9
20	9	80.0	125.0	98.8	94.8	12.3
21	8	80.0	145.0	106.1	110.0	11.5
22	2	95.0	140.0	117.5	126.7	11.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cirrhinus jullieni*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	2.0	2.0	2.0	1.5	9.3
7	5	2.0	5.0	3.0	2.6	8.7
8	29	3.0	6.0	4.4	4.1	8.7
9	41	4.0	9.0	5.7	6.1	7.8
10	56	3.0	13.0	8.7	8.8	8.7
11	98	2.0	20.0	12.8	12.3	9.6
12	53	11.0	35.0	17.9	16.6	10.4
13	49	16.0	32.0	23.1	21.9	10.5
14	41	24.0	40.0	28.9	28.2	10.5
15	35	29.0	45.0	36.2	35.8	10.7
16	45	33.0	55.0	44.1	44.7	10.8
17	21	43.0	62.0	53.2	55.1	10.8
18	8	59.0	85.0	70.4	67.2	12.1
19	3	65.0	90.0	73.3	80.9	10.7
20	1	85.0	85.0	85.0	96.6	10.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Clarias batrachus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	1	2.0	2.0	2.0	2.0	5.8
8	2	2.0	3.0	2.5	3.1	4.9
9	1	5.0	5.0	5.0	4.6	6.9
10	3	5.0	11.0	8.0	6.5	8.0
11	2	8.0	10.0	9.0	8.8	6.8
12	1	12.0	12.0	12.0	11.7	6.9
13	2	14.0	23.0	18.5	15.2	8.4
14	5	15.0	20.0	17.8	19.4	6.5
15	4	24.0	30.0	26.0	24.3	7.7
16	11	18.0	39.0	31.0	29.9	7.6
17	6	31.0	37.0	35.0	36.5	7.1
18	3	41.0	46.0	43.0	43.9	7.4
19	6	42.0	60.0	52.2	52.4	7.6
20	2	52.0	54.0	53.0	66.6	6.6
21	3	75.0	100.0	85.0	75.9	9.2
23	9	85.0	115.0	99.2	97.0	8.1
24	6	90.0	110.0	100.8	108.8	7.3
25	9	95.0	160.0	126.1	121.5	8.1
26	13	120.0	180.0	140.8	135.1	8.0
27	8	140.0	210.0	162.4	149.5	7.8
28	8	140.0	210.0	162.4	164.9	7.4
29	3	175.0	210.0	193.3	181.3	7.9
30	2	170.0	195.0	182.5	198.7	6.8
31	2	205.0	215.0	210.0	217.0	7.0
34	1	240.0	240.0	240.0	278.4	6.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Clupeoides hypselosoma*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	1.0	1.0	1.0	1.6	8.0
6	18	1.0	5.0	2.4	2.4	11.3
7	99	2.0	6.0	3.4	3.2	10.0
8	436	3.0	7.0	4.3	4.2	8.5
9	47	3.0	8.0	5.0	5.4	6.9
10	1	10.0	10.0	10.0	6.7	10.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Coilia macrognathus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	1.0	1.0	1.0	1.2	4.6
7	2	2.0	2.0	2.0	1.9	5.8
8	4	2.0	3.0	2.2	2.9	4.4
9	9	4.0	9.0	4.9	4.2	6.7
10	10	5.0	13.0	6.9	5.8	6.9
11	10	7.0	9.0	7.9	7.8	5.9
12	6	6.0	11.0	8.3	10.1	4.8
13	4	7.0	12.0	10.7	9.6	4.9
14	8	7.0	17.0	11.4	11.2	4.1
15	11	8.0	20.0	12.6	12.8	3.7
16	20	12.0	17.0	14.8	14.6	3.6
17	41	14.0	26.0	16.7	16.6	3.4
18	22	16.0	22.0	19.5	18.6	3.3
19	11	16.0	24.0	20.6	20.8	3.0
20	3	17.0	26.0	21.0	23.1	2.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Corica goniognathus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	2.0	2.0	2.0	1.4	16.0
6	6	2.0	3.0	2.2	2.3	10.0
7	9	3.0	5.0	4.0	3.6	11.7
8	11	3.0	7.0	5.1	5.3	9.9
9	10	4.0	10.0	7.7	7.5	10.6
10	8	9.0	15.0	10.5	10.2	10.5
11	12	9.0	18.0	12.3	13.5	9.3
12	9	16.0	26.0	20.4	17.3	11.8
13	3	19.0	28.0	24.3	26.1	11.1
14	2	35.0	38.0	36.5	31.2	13.3
19	1	62.0	62.0	62.0	65.8	9.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cultrops siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	3	2.0	4.0	3.0	2.7	13.9
7	7	2.0	5.0	3.4	3.5	10.0
8	4	4.0	6.0	4.7	4.4	9.3
9	4	3.0	7.0	5.5	5.3	7.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	2	2.0	3.0	2.5	2.6	7.3
8	7	3.0	5.0	4.0	3.9	7.8
9	8	4.0	8.0	5.9	5.6	8.1
10	3	6.0	9.0	7.3	7.8	7.3
11	1	11.0	11.0	11.0	10.5	8.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys apogon*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	84	1.0	6.0	1.7	1.2	13.4
6	206	1.0	6.0	2.2	2.1	10.2
7	302	2.0	6.0	3.4	3.5	9.9
8	371	2.0	11.0	5.3	5.2	10.3
9	453	3.0	15.0	7.5	7.4	10.3
10	362	5.0	23.0	10.5	10.3	10.5
11	290	9.0	22.0	14.3	13.7	10.7
12	235	7.0	31.0	18.7	17.9	10.8
13	228	10.0	37.0	23.6	22.9	10.7
14	121	11.0	45.0	28.1	29.0	10.2
15	61	27.0	55.0	36.6	38.1	10.9
16	31	35.0	89.0	50.1	49.1	12.2
17	23	45.0	95.0	69.1	62.3	14.1
18	53	50.0	115.0	90.1	78.0	15.4
19	33	85.0	120.0	105.4	96.5	15.4
20	22	85.0	140.0	124.3	118.0	15.5
21	11	115.0	155.0	138.6	143.0	15.0
22	1	165.0	165.0	165.0	171.7	15.5
24	1	125.0	125.0	125.0	241.7	9.0
37	1	410.0	410.0	410.0	1325.0	8.1
49	1	1235.0	1235.0	1235.0	3997.6	10.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys armatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	1.1	8.0
6	2	2.0	2.0	2.0	2.2	9.3
7	4	3.0	9.0	5.0	3.9	14.6
8	4	5.0	9.0	6.5	6.4	12.7
9	2	8.0	10.0	9.0	10.0	12.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys dumerilii*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	5	3.0	5.0	4.0	4.4	7.8
9	9	5.0	8.0	6.3	6.2	8.7
10	12	6.0	12.0	8.9	8.4	8.9
11	12	9.0	12.0	10.7	11.0	8.0
12	8	14.0	20.0	15.7	14.2	9.1
13	2	15.0	20.0	17.5	18.0	8.0
14	5	19.0	24.0	22.2	22.3	8.1
15	4	18.0	30.0	25.5	27.3	7.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys enoplos*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	0.5	15.6
5	3	1.0	2.0	1.3	1.1	10.7
6	10	1.0	3.0	1.8	1.9	8.3
7	13	2.0	4.0	3.1	2.9	9.2
8	28	4.0	8.0	4.8	4.4	9.4
9	26	2.0	14.0	6.7	6.2	9.2
10	27	6.0	11.0	8.3	8.6	8.3
11	19	5.0	15.0	10.6	11.4	8.0
12	8	9.0	17.0	14.7	14.8	8.5
13	10	14.0	21.0	18.3	18.8	8.3
14	22	18.0	25.0	21.7	23.5	7.9
15	46	20.0	41.0	28.5	28.8	8.4
16	60	25.0	53.0	36.2	35.0	8.8
17	50	30.0	65.0	42.2	42.0	8.6
18	41	29.0	73.0	50.2	49.8	8.6
19	30	44.0	79.0	59.0	58.5	8.6
20	29	44.0	85.0	68.8	68.2	8.6
21	15	68.0	100.0	79.4	79.0	8.6
22	23	62.0	155.0	92.5	90.8	8.7
23	11	95.0	130.0	111.3	103.7	9.1
24	12	105.0	170.0	127.9	117.8	9.2
25	13	120.0	155.0	140.6	133.1	9.0
26	6	140.0	170.0	151.2	149.7	8.6
27	4	153.0	175.0	162.5	165.8	8.3
28	3	175.0	220.0	195.0	186.2	8.9
29	5	205.0	225.0	214.0	208.3	8.8
30	3	195.0	255.0	226.7	232.1	8.4
31	4	245.0	260.0	251.0	257.7	8.4
36	1	420.0	420.0	420.0	415.5	9.0
50	1	1200.0	1200.0	1200.0	1186.6	9.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Cyclocheilichthys repasson*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	0.7	15.6
5	3	1.0	2.0	1.3	1.3	10.7
6	9	1.0	4.0	2.8	2.2	12.9
7	15	2.0	8.0	4.7	3.5	13.6
8	37	2.0	7.0	4.9	5.2	9.7
9	75	4.0	12.0	6.7	7.3	9.2
10	40	7.0	15.0	10.4	9.9	10.4
11	17	10.0	15.0	12.1	13.1	9.1
12	24	14.0	23.0	19.0	16.9	11.0
13	13	21.0	30.0	25.0	21.3	11.4
14	6	24.0	35.0	31.0	30.0	11.3
15	5	32.0	44.0	36.8	38.0	10.9
16	1	47.0	47.0	47.0	47.5	11.5
17	1	55.0	55.0	55.0	58.5	11.2
18	1	79.0	79.0	79.0	71.2	13.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Datnioides microlepis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	5.0	5.0	5.0	4.3	23.1
7	1	6.0	6.0	6.0	7.0	17.5
10	2	20.0	25.0	22.5	21.9	22.5
17	1	124.0	124.0	124.0	118.1	25.2
24	1	310.0	310.0	130.0	352.3	22.4
27	1	535.0	535.0	535.0	511.9	27.2
38	1	1490.0	1490.0	1490.0	1512.7	27.1
48	1	3100.0	3100.0	3100.0	3173.0	28.0
49	1	3200.0	3200.0	3200.0	3387.4	27.2
55	1	5500.0	5500.0	5500.0	4885.7	33.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Fluta alba*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	1	1.0	1.0	1.0	1.1	0.8
12	2	1.0	2.0	1.5	1.5	0.9
14	1	2.0	2.0	2.0	2.3	0.7
15	2	2.0	4.0	3.0	2.8	0.9
18	3	5.0	8.0	7.0	4.8	1.2
19	1	5.0	5.0	5.0	5.6	0.7
23	1	8.0	8.0	8.0	9.8	0.7
24	1	10.0	10.0	10.0	11.1	0.7
25	1	9.0	9.0	9.0	12.5	0.6
26	2	11.0	14.0	12.5	14.1	0.7
29	1	20.0	20.0	20.0	19.3	0.8
31	1	30.0	30.0	30.0	23.5	1.0
36	1	45.0	45.0	45.0	36.4	1.0
37	1	31.0	31.0	31.0	39.4	0.6
38	2	45.0	49.0	47.0	42.6	0.9
42	1	50.0	50.0	50.0	57.0	0.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Garra taeniata*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
13	1	22.0	22.0	22.0	24.1	10.0
15	2	38.0	39.0	38.5	35.6	11.4
16	2	39.0	46.0	42.5	42.4	10.4
17	3	51.0	59.0	54.0	50.0	11.0
18	4	59.0	62.0	60.5	58.4	10.4
19	8	54.0	71.0	62.4	67.7	9.1
20	5	69.0	87.0	76.0	77.9	9.5
21	6	87.0	105.0	95.0	88.9	10.3
24	1	130.0	130.0	130.0	127.9	9.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Hampala dispar*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	3	1.0	1.0	1.0	0.5	37.0
4	11	1.0	3.0	1.4	1.0	21.3
5	27	1.0	6.0	2.0	1.8	16.0
6	39	1.0	7.0	3.2	3.0	14.8
7	44	1.0	7.0	4.3	4.6	12.7
8	59	4.0	11.0	6.7	6.5	13.0
9	69	4.0	13.0	9.2	9.0	12.6
10	42	10.0	17.0	12.5	11.9	12.5
11	28	7.0	21.0	16.4	15.4	12.3
12	10	18.0	27.0	22.9	19.5	13.2
13	28	21.0	37.0	28.7	28.0	13.0
14	26	27.0	43.0	35.9	34.8	13.1
15	16	35.0	50.0	41.0	42.6	12.1
16	17	40.0	65.0	48.6	51.4	11.9
17	8	56.0	74.0	64.6	61.3	13.1
18	6	62.0	86.0	71.7	72.4	12.3
19	5	75.0	90.0	81.0	84.8	11.8
20	5	100.0	120.0	107.8	98.4	13.5
21	1	140.0	140.0	140.0	113.5	15.1
22	4	115.0	165.0	137.5	129.9	12.9
23	3	135.0	160.0	148.3	147.9	12.2
25	2	150.0	200.0	175.0	188.5	11.2
27	1	240.0	240.0	240.0	235.9	12.2
29	1	290.0	290.0	290.0	290.4	11.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Hampala macrolepidota*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	2	1.0	1.0	1.0	0.3	37.0
4	3	1.0	1.0	1.0	0.8	15.6
5	9	1.0	2.0	1.8	1.5	14.2
6	15	2.0	3.0	2.2	2.6	10.2
7	16	2.0	5.0	3.6	4.1	10.4
8	5	5.0	9.0	6.2	6.0	12.1
9	2	5.0	12.0	8.5	8.4	11.7
10	4	8.0	15.0	12.0	11.5	12.0
11	1	15.0	15.0	15.0	15.2	11.3
12	1	16.0	16.0	16.0	19.6	9.3
13	2	25.0	30.0	27.5	24.7	12.5
15	3	35.0	36.0	35.3	37.3	10.5
16	2	45.0	80.0	62.5	45.0	15.3
17	2	62.0	65.0	63.5	53.7	12.9
18	3	65.0	80.0	72.3	63.4	12.4
19	5	73.0	95.0	85.6	74.1	12.5
20	2	95.0	105.0	100.0	86.0	12.5
21	3	120.0	136.0	129.3	102.1	14.0
22	1	145.0	145.0	145.0	118.4	13.6
23	3	120.0	130.0	125.0	136.3	10.3
24	3	116.0	200.0	148.7	156.1	10.7
25	1	115.0	115.0	115.0	177.7	7.4
26	3	125.0	210.0	170.0	201.4	9.7
27	4	128.0	260.0	213.2	227.0	10.8
28	1	270.0	270.0	270.0	254.9	12.3
29	1	300.0	300.0	300.0	285.0	12.3
30	6	300.0	360.0	339.2	317.4	12.6
31	4	305.0	400.0	372.5	352.3	12.5
32	11	365.0	495.0	412.3	389.8	12.6
33	22	385.0	510.0	434.8	429.8	12.1
34	15	356.0	525.0	466.7	472.6	11.9
35	11	436.0	560.0	509.2	518.3	11.9
36	7	365.0	585.0	518.6	560.5	11.1
37	9	455.0	690.0	622.2	611.9	12.3
38	9	550.0	760.0	691.1	666.4	12.6
39	11	630.0	795.0	734.5	724.3	12.4
40	2	770.0	785.0	777.5	785.4	12.1
41	2	795.0	910.0	852.5	850.1	12.4
42	3	940.0	985.0	966.7	918.3	13.0
43	3	990.0	1075.0	1026.7	990.1	12.9
44	1	1060.0	1060.0	1060.0	1065.8	12.4
45	2	1060.0	1320.0	1190.0	1145.3	13.1
49	1	1420.0	1420.0	1420.0	1504.5	12.1
50	1	1700.0	1700.0	1700.0	1605.0	13.6
57	1	2040.0	2040.0	2040.0	2441.9	11.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Kryptopterus cryptopterus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	1	2.0	2.0	2.0	2.8	3.9
9	2	3.0	4.0	3.5	3.9	4.8
10	6	4.0	8.0	6.2	5.3	6.2
11	1	6.0	6.0	6.0	7.0	4.5
12	9	7.0	11.0	9.3	8.9	5.4
13	1	11.0	11.0	11.0	11.3	5.0
14	4	10.0	17.0	14.2	14.0	5.2
15	4	15.0	18.0	16.0	17.1	4.7
16	1	24.0	24.0	24.0	20.6	5.9
18	2	23.0	31.0	27.0	28.9	4.6
20	1	28.0	28.0	28.0	28.5	3.5
23	1	50.0	50.0	50.0	45.2	4.1
26	1	74.0	74.0	74.0	67.9	4.2
27	2	70.0	70.0	70.0	77.0	3.6
36	1	200.0	200.0	200.0	199.6	4.3
54	1	780.0	780.0	780.0	764.8	4.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Kryptopterus bleekeri*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	1	4.0	4.0	4.0	3.7	7.8
9	1	8.0	8.0	8.0	5.0	11.0
10	3	7.0	8.0	7.7	6.5	7.7
11	5	5.0	11.0	8.4	8.2	6.3
12	3	10.0	11.0	10.3	10.2	6.0
13	5	9.0	14.0	11.4	12.4	5.2
14	10	12.0	16.0	14.0	14.9	5.1
15	8	12.0	22.0	15.7	17.7	4.7
16	8	11.0	28.0	19.0	20.7	4.6
17	9	21.0	37.0	25.9	24.1	5.3
18	7	26.0	30.0	28.4	27.7	4.9
19	9	30.0	37.0	32.9	31.7	4.8
20	7	36.0	46.0	41.4	36.0	5.2
21	7	35.0	54.0	44.9	40.6	4.8
22	10	37.0	57.0	47.0	45.6	4.4
23	8	45.0	62.0	55.6	50.9	4.6
24	6	41.0	70.0	56.8	56.5	4.1
25	7	40.0	65.0	55.7	62.6	3.6
26	6	60.0	72.0	65.8	68.9	3.7
27	8	63.0	85.0	76.5	75.7	3.9
28	6	73.0	89.0	83.2	83.7	3.8
32	3	125.0	152.0	139.0	133.8	4.2
36	1	200.0	200.0	200.0	202.4	4.3
39	1	249.0	249.0	249.0	268.2	4.2
41	1	330.0	330.0	330.0	319.7	4.8
53	1	790.0	790.0	790.0	787.9	5.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labeo bicolor*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	1.0	8.0
7	3	2.0	4.0	3.0	3.1	8.7
8	5	4.0	9.0	6.0	5.0	11.7
9	7	5.0	9.0	7.3	7.4	10.0
10	11	9.0	13.0	11.0	10.7	11.0
11	7	12.0	15.0	13.1	14.8	9.9
12	1	23.0	23.0	23.0	19.9	13.3
13	1	36.0	36.0	36.0	26.2	16.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labeo erythrurus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	4	2.0	3.0	2.2	1.9	10.4
7	10	2.0	4.0	2.7	2.9	7.9
8	17	3.0	6.0	4.4	4.2	8.6
9	8	4.0	7.0	5.5	5.9	7.5
10	4	7.0	10.0	8.7	8.0	8.7
12	1	16.0	16.0	16.0	13.4	9.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labiobarbus* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
12	1	15.0	15.0	15.0	14.3	8.7
13	5	13.0	29.0	18.6	18.7	8.5
14	11	21.0	27.0	24.4	23.8	8.9
15	17	24.0	40.0	30.4	30.0	9.0
16	9	32.0	43.0	36.4	37.1	8.9
17	4	43.0	51.0	46.5	45.3	9.5
18	4	49.0	68.0	54.7	54.7	9.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labiobarbus lineatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
9	1	5.0	5.0	5.0	5.4	6.9
11	4	10.0	13.0	11.5	11.5	8.6
12	10	14.0	20.0	16.4	15.9	9.5
13	13	17.0	25.0	22.0	21.5	10.0
14	18	21.0	37.0	27.4	28.4	10.0
15	4	27.0	56.0	39.5	36.8	11.7
16	1	53.0	53.0	53.0	46.9	12.9
17	2	63.0	70.0	66.5	58.8	13.5
18	1	72.0	72.0	72.0	73.0	12.3
19	1	76.0	76.0	76.0	89.4	11.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labiobarbus siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	2	1.0	2.0	1.5	1.4	6.9
7	2	2.0	3.0	2.5	2.3	7.3
8	10	2.0	5.0	3.9	3.7	7.6
9	13	2.0	8.0	5.2	5.5	7.2
10	25	5.0	11.0	8.2	7.8	8.2
11	12	8.0	12.0	10.1	10.8	7.6
12	12	10.0	18.0	14.6	14.5	8.4
13	16	16.0	24.0	19.6	19.0	8.9
14	49	16.0	34.0	25.2	24.4	9.2
15	59	25.0	41.0	31.3	30.8	9.3
16	38	30.0	51.0	39.0	38.3	9.5
17	32	35.0	76.0	47.7	47.0	9.7
18	24	45.0	65.0	54.9	57.1	9.4
19	15	55.0	89.0	70.3	68.5	10.2
20	3	70.0	85.0	78.3	81.5	9.8
21	2	82.0	85.0	83.5	96.1	9.0
22	2	103.0	113.0	108.0	112.5	10.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Labiobarbus spilopleura*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	2	2.0	2.0	2.0	1.9	9.3
7	4	4.0	4.0	4.0	3.1	11.7
8	4	5.0	6.0	5.5	4.6	10.7
9	30	4.0	8.0	6.6	6.6	9.1
10	33	6.0	10.0	8.7	9.0	8.7
11	21	9.0	15.0	11.5	12.0	8.7
12	18	8.0	18.0	14.2	15.5	8.2
13	22	17.0	24.0	20.0	19.8	9.1
14	30	15.0	29.0	25.6	24.7	9.3
15	29	27.0	44.0	31.9	30.3	9.5
16	34	31.0	43.0	36.8	36.8	9.0
17	11	40.0	50.0	45.3	44.2	9.2
18	4	42.0	60.0	53.5	52.4	9.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Laides hexanema*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	2	1.0	2.0	1.5	1.9	6.9
7	4	2.0	4.0	3.5	2.9	10.2
8	3	4.0	5.0	4.7	4.3	9.1
9	1	6.0	6.0	6.0	6.0	8.2
10	1	7.0	7.0	7.0	8.2	7.0
12	2	11.0	16.0	13.5	14.0	7.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Leiocassis siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	1.2	8.0
6	2	2.0	2.0	2.0	2.0	9.3
7	6	2.0	4.0	3.2	3.2	9.2
8	8	4.0	10.0	5.4	4.7	10.5
9	3	6.0	7.0	6.3	6.7	8.7
10	3	8.0	9.0	8.3	9.2	8.3
11	3	12.0	13.0	12.7	12.0	9.5
12	2	10.0	16.0	13.0	15.5	7.5
13	2	16.0	26.0	21.0	19.6	9.6
14	1	30.0	30.0	30.0	24.3	10.9
16	1	40.0	40.0	40.0	35.9	9.8
18	1	44.0	44.0	44.0	50.6	7.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Luciosoma bleekeri*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	20	1.0	1.0	1.0	0.9	15.6
5	26	1.0	2.0	1.4	1.4	11.1
6	28	1.0	3.0	2.0	2.0	9.3
7	26	2.0	4.0	2.9	2.8	8.4
8	19	2.0	5.0	3.9	3.6	7.6
9	12	4.0	7.0	5.0	4.6	6.9
10	4	6.0	8.0	6.7	7.2	6.7
11	1	10.0	10.0	10.0	9.3	7.5
12	1	18.0	18.0	18.0	11.7	10.4
14	1	15.0	15.0	15.0	17.7	5.5
16	2	25.0	28.0	26.5	25.3	6.5
17	1	26.0	26.0	26.0	29.7	5.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Lycothrissa crocodilus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	3	6.0	7.0	6.7	6.6	5.0
12	2	6.0	11.0	8.5	8.3	4.9
14	6	11.0	16.0	13.0	12.4	4.7
15	5	12.0	15.0	13.2	14.9	3.9
16	10	16.0	24.0	19.1	17.7	4.7
17	7	15.0	24.0	20.1	20.7	4.1
18	4	20.0	31.0	26.5	26.2	4.5
19	2	32.0	32.0	32.0	32.3	4.7
21	1	50.0	50.0	50.0	47.7	5.4
25	1	92.0	92.0	92.0	93.8	5.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Macrognathus aculeatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	1.0	1.0	1.0	0.5	4.6
8	1	3.0	3.0	3.0	1.4	5.9
9	6	2.0	4.0	2.7	2.0	3.7
10	7	2.0	4.0	3.0	2.9	3.0
11	9	2.0	7.0	3.7	4.0	2.7
12	17	3.0	8.0	5.0	5.4	2.9
13	20	3.0	13.0	6.9	7.0	3.2
14	23	4.0	12.0	8.3	9.0	3.0
15	39	6.0	23.0	11.6	11.4	3.4
16	51	10.0	24.0	14.5	14.1	3.6
17	66	12.0	34.0	19.1	17.3	3.9
18	68	15.0	29.0	21.3	21.4	3.7
19	63	13.0	33.0	25.4	25.3	3.7
20	51	19.0	41.0	30.3	29.6	3.8
21	25	22.0	45.0	35.8	34.4	3.9
22	28	35.0	62.0	41.5	39.7	3.9
23	18	34.0	63.0	46.9	45.5	3.9
24	5	32.0	54.0	48.0	51.9	3.5
25	2	58.0	66.0	62.0	58.9	4.0
27	1	50.0	50.0	50.0	74.6	2.5
28	2	59.0	83.0	71.0	83.5	3.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Macrognathus armatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
12	1	4.0	4.0	4.0	4.4	2.3
15	1	10.0	10.0	10.0	9.3	3.0
17	1	13.0	13.0	13.0	14.2	2.6
18	2	20.0	20.0	20.0	17.2	3.4
19	1	20.0	20.0	20.0	20.6	2.9
22	1	30.0	30.0	30.0	33.5	2.8
24	1	43.0	43.0	43.0	44.8	3.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mastocembelus armatus armatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	0.9	8.0
6	1	1.0	1.0	1.0	1.3	4.6
7	1	2.0	2.0	2.0	2.0	5.8
8	5	1.0	7.0	5.0	2.7	9.8
9	8	2.0	8.0	4.1	3.6	5.7
10	3	5.0	10.0	8.0	4.7	8.0
11	8	2.0	17.0	6.5	5.9	4.9
12	3	5.0	18.0	10.3	7.3	6.0
13	2	5.0	9.0	7.0	8.8	3.2
14	1	11.0	11.0	11.0	10.6	4.0
15	7	5.0	15.0	9.6	12.5	2.8
16	7	9.0	12.0	10.4	14.6	2.5
17	5	14.0	24.0	17.2	17.0	3.5
18	3	20.0	24.0	22.7	19.5	3.9
20	1	35.0	35.0	35.0	25.2	4.4
21	1	37.0	37.0	37.0	28.3	4.0
22	2	28.0	30.0	29.0	31.7	2.7
23	1	30.0	30.0	30.0	35.3	2.5
24	5	35.0	65.0	43.0	39.2	3.1
25	2	51.0	55.0	53.0	43.3	3.4
26	4	45.0	64.0	54.5	47.6	3.1
27	2	70.0	72.0	71.0	52.2	3.6
28	3	62.0	75.0	67.3	57.0	3.1
29	2	54.0	80.0	67.0	73.2	2.7
31	3	95.0	100.0	96.7	86.6	3.2
32	1	90.0	90.0	90.0	93.9	2.7
33	1	110.0	110.0	110.0	101.5	3.1
34	1	100.0	100.0	100.0	109.4	2.5
36	1	130.0	130.0	130.0	126.5	2.8
37	1	120.0	120.0	120.0	135.5	2.4
39	2	155.0	160.0	157.5	154.8	2.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mastocembelus circumcinctus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	1	1.0	1.0	1.0	1.4	2.0
10	2	2.0	4.0	3.0	3.0	3.0
11	2	3.0	7.0	5.0	4.1	3.8
12	4	5.0	8.0	6.5	5.5	3.8
13	6	5.0	10.0	8.3	7.3	3.8
14	4	8.0	11.0	9.2	9.4	3.4
15	6	6.0	15.0	11.0	11.9	3.3
16	5	12.0	18.0	14.2	14.8	3.5
17	2	16.0	20.0	18.0	18.2	3.7
18	5	20.0	30.0	24.0	22.1	4.1
19	8	20.0	35.0	25.6	26.6	3.7
20	3	22.0	40.0	31.3	31.6	3.9
21	4	27.0	50.0	38.5	37.4	4.2
22	4	45.0	50.0	48.0	43.8	4.5
23	3	45.0	55.0	49.3	50.9	4.0
24	2	65.0	80.0	72.5	58.9	5.2
25	3	50.0	70.0	60.7	67.7	3.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mastocembelus taeniagaster*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	2	1.0	1.0	1.0	0.9	2.9
8	2	1.0	2.0	1.5	1.4	2.9
9	4	1.0	3.0	2.0	2.0	2.7
10	5	2.0	5.0	3.0	2.7	3.0
11	16	2.0	5.0	3.7	3.7	2.8
12	10	4.0	6.0	4.9	4.8	2.8
13	12	5.0	10.0	6.5	6.1	3.0
14	10	5.0	10.0	7.5	7.6	2.7
15	4	8.0	11.0	9.5	9.4	2.8
16	7	10.0	14.0	11.9	11.4	2.9
17	7	10.0	16.0	13.6	13.6	2.8
18	6	16.0	20.0	17.5	17.3	3.0
19	1	24.0	24.0	24.0	21.8	4.5
21	1	34.0	34.0	34.0	33.3	3.7
22	1	38.0	38.0	38.0	40.5	3.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Microphis boaja*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	1	2.0	2.0	2.0	1.4	1.5
13	1	3.0	3.0	3.0	2.0	1.4
15	2	2.0	4.0	3.0	2.7	0.9
17	2	3.0	4.0	3.5	3.5	0.7
19	1	4.0	4.0	4.0	4.4	0.6
20	3	4.0	5.0	4.3	4.9	0.5
21	4	4.0	5.0	4.2	5.4	0.5
22	3	5.0	6.0	5.3	5.9	0.5
23	4	5.0	6.0	5.7	6.5	0.5
24	6	5.0	8.0	6.3	7.1	0.5
25	8	6.0	12.0	8.1	7.7	0.5
26	7	7.0	11.0	9.4	8.3	0.5
27	7	7.0	12.0	9.6	9.0	0.5
28	5	9.0	15.0	12.0	9.7	0.5
29	1	20.0	20.0	20.0	14.0	0.8
30	4	10.0	18.0	13.7	15.3	0.5
31	4	12.0	21.0	16.7	16.8	0.6
32	3	19.0	21.0	20.0	18.4	0.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Morulius chrysophekadion*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	0.7	15.6
6	3	2.0	5.0	3.0	2.3	13.9
7	6	2.0	6.0	3.8	3.7	11.2
8	8	4.0	8.0	5.9	5.5	11.5
9	11	4.0	10.0	7.6	7.8	10.5
10	24	6.0	12.0	9.8	10.6	9.8
11	12	12.0	16.0	13.8	14.0	10.4
12	12	13.0	35.0	19.2	18.2	11.1
13	13	19.0	30.0	23.5	23.0	10.7
14	15	23.0	40.0	31.3	28.6	11.4
15	10	30.0	42.0	36.3	35.1	10.8
16	11	33.0	50.0	42.1	42.5	10.3
17	6	45.0	65.0	52.5	50.8	10.7
18	9	50.0	80.0	66.7	64.3	11.4
19	14	69.0	90.0	79.0	75.3	11.5
20	8	75.0	95.0	85.0	87.6	10.6
21	19	85.0	130.0	102.6	101.1	11.1
22	19	90.0	180.0	122.4	116.0	11.5
23	17	110.0	160.0	128.8	132.1	10.6
24	24	130.0	200.0	150.5	149.8	10.9
25	31	135.0	260.0	178.9	168.9	11.4
26	26	160.0	270.0	200.6	189.5	11.5
27	44	180.0	285.0	217.5	211.8	11.0
28	48	185.0	340.0	238.5	235.7	10.9
29	39	190.0	330.0	247.8	261.3	10.2
30	48	230.0	370.0	279.1	288.7	10.3
31	32	245.0	390.0	311.9	317.9	10.5
32	20	230.0	390.0	338.7	349.0	10.3
33	14	320.0	550.0	387.1	382.0	10.8
34	10	250.0	450.0	372.0	417.1	9.5
35	4	370.0	460.0	417.5	454.2	9.7
36	3	440.0	500.0	463.3	493.4	9.9
37	2	490.0	565.0	527.5	534.8	10.4
39	1	600.0	600.0	600.0	624.3	10.1
40	2	800.0	850.0	825.0	672.6	12.9
41	1	900.0	900.0	900.0	723.3	13.1
43	1	920.0	920.0	920.0	832.0	11.6
44	6	840.0	1070.0	991.7	890.2	11.6
45	1	980.0	980.0	980.0	951.0	10.7
46	1	1200.0	1200.0	1200.0	1014.5	12.3
47	1	1090.0	1090.0	1090.0	1080.8	10.5
49	4	1200.0	1500.0	1385.0	1221.7	11.8
51	1	1600.0	1600.0	1600.0	1374.2	12.1
52	1	1550.0	1550.0	1550.0	1454.9	11.0
53	1	1920.0	1920.0	1920.0	1583.9	12.9
60	1	2800.0	2800.0	2800.0	2216.1	13.0
72	1	4000.0	4000.0	4000.0	3788.2	10.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystacoleucus* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	8	1.0	2.0	1.1	0.9	17.6
5	12	1.0	2.0	1.4	1.6	11.3
6	18	2.0	4.0	2.7	2.6	12.3
7	11	2.0	6.0	4.0	3.8	11.7
8	16	4.0	8.0	5.6	5.4	11.0
9	10	3.0	9.0	7.2	7.2	9.9
10	6	9.0	11.0	10.0	9.5	10.0
11	1	15.0	15.0	15.0	12.1	11.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystacoleucus chilopterus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	6	2.0	3.0	2.2	1.6	17.3
6	13	1.0	4.0	2.8	2.7	12.8
7	36	2.0	6.0	4.1	4.2	12.0
8	27	5.0	8.0	6.1	6.1	12.0
9	30	6.0	11.0	8.6	8.4	11.7
10	23	9.0	17.0	11.8	11.3	11.8
11	10	14.0	17.0	15.4	14.7	11.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	0.9	8.0
6	1	2.0	2.0	2.0	1.6	9.3
8	1	2.0	2.0	2.0	3.6	3.9
9	1	5.0	5.0	5.0	5.1	6.9
11	3	8.0	10.0	9.3	9.2	7.0
12	2	13.0	14.0	13.5	11.9	7.8
13	3	16.0	20.0	17.7	17.1	8.0
14	2	17.0	21.0	19.0	21.6	6.9
15	1	33.0	33.0	33.0	26.9	9.8
26	1	160.0	160.0	160.0	151.5	9.1
27	1	160.0	160.0	160.0	170.6	8.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus atrifasciatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	1.0	1.0	1.0	1.3	4.6
7	10	2.0	3.0	2.5	2.3	7.3
8	5	3.0	4.0	3.4	3.7	6.6
9	11	5.0	7.0	5.7	5.5	7.9
10	9	7.0	10.0	7.8	8.0	7.8
11	1	15.0	15.0	15.0	11.2	11.3
14	1	24.0	24.0	24.0	26.1	8.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus cavasius*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	2.0	2.0	2.0	1.5	9.3
7	8	1.0	4.0	2.5	2.3	7.3
8	11	2.0	5.0	3.5	3.4	6.9
9	14	4.0	6.0	4.8	4.9	6.6
10	14	6.0	8.0	6.9	6.6	6.9
11	19	5.0	10.0	8.4	8.8	6.3
12	21	9.0	16.0	11.1	11.4	6.4
13	19	11.0	20.0	15.3	14.5	7.0
14	59	13.0	26.0	18.1	18.1	6.6
15	69	15.0	33.0	22.9	22.2	6.8
16	56	18.0	36.0	26.8	26.9	6.5
17	37	25.0	40.0	31.6	31.3	6.4
18	18	30.0	45.0	38.1	37.8	6.5
19	7	30.0	62.0	43.9	45.2	6.4
20	1	60.0	60.0	60.0	53.5	7.5
21	5	52.0	70.0	64.0	62.9	6.9
22	5	65.0	80.0	74.0	73.4	6.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus gulio*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	6	9.0	10.0	9.3	9.6	7.0
12	7	10.0	14.0	12.4	11.9	7.2
13	1	15.0	15.0	15.0	14.5	6.8
15	1	16.0	16.0	16.0	20.7	4.7
18	1	36.0	36.0	36.0	32.5	6.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus micracanthus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	1	6.0	6.0	6.0	6.7	4.5
12	1	9.0	9.0	9.0	9.0	5.2
14	1	14.0	14.0	14.0	15.1	5.1
15	2	21.0	25.0	23.0	19.1	6.8
17	4	25.0	33.0	30.0	29.2	6.1
18	4	30.0	35.0	33.5	35.5	5.7
19	1	42.0	42.0	42.0	42.7	6.1
20	1	45.0	45.0	45.0	43.1	5.6
24	1	80.0	80.0	80.0	77.8	5.8
25	2	81.0	84.0	82.5	88.8	5.3
29	1	155.0	155.0	155.0	143.6	6.3
30	1	160.0	160.0	160.0	160.3	5.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus nemurus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	5	1.0	1.0	1.0	1.0	8.0
6	12	1.0	3.0	2.2	1.7	10.0
7	16	2.0	4.0	2.6	2.7	7.6
8	22	2.0	5.0	4.0	3.9	7.8
9	17	4.0	7.0	5.3	5.5	7.3
10	29	5.0	12.0	7.2	7.5	7.2
11	17	7.0	15.0	10.1	9.9	7.6
12	34	8.0	18.0	12.6	12.7	7.3
13	32	9.0	24.0	16.6	16.0	7.6
14	33	14.0	35.0	20.5	19.8	7.5
15	40	15.0	38.0	24.9	24.2	7.4
16	44	22.0	40.0	28.4	29.2	6.9
17	40	24.0	56.0	35.2	34.8	7.2
18	38	27.0	57.0	42.2	41.0	7.2
19	43	17.0	70.0	48.3	47.9	7.0
20	26	42.0	75.0	55.3	55.6	6.9
21	30	47.0	95.0	68.5	64.1	7.4
22	17	50.0	95.0	72.2	73.3	6.8
23	25	62.0	128.0	85.6	83.4	7.0
24	13	52.0	130.0	95.1	94.3	6.9
25	18	85.0	135.0	114.4	106.1	7.3
26	10	115.0	157.0	136.0	134.5	7.7
27	3	97.0	180.0	142.3	151.4	7.2
28	5	115.0	200.0	165.0	169.6	7.5
29	3	130.0	265.0	198.3	189.3	8.1
30	5	115.0	302.0	240.4	210.5	8.9
31	2	225.0	235.0	230.0	233.2	7.7
32	2	205.0	240.0	222.5	257.6	6.8
33	5	257.0	392.0	323.2	283.6	9.0
34	3	255.0	385.0	325.0	311.4	8.3
35	1	350.0	350.0	350.0	340.9	8.2
36	1	315.0	315.0	315.0	372.3	6.7
38	1	355.0	355.0	355.0	440.9	6.5
42	1	725.0	725.0	725.0	603.0	9.8
46	2	740.0	900.0	820.0	801.5	8.4
50	1	880.0	880.0	880.0	1040.4	7.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus vittatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	10	1.0	3.0	2.1	1.8	9.7
7	20	1.0	8.0	3.1	2.8	9.0
8	32	2.0	9.0	4.7	4.1	9.1
9	97	4.0	10.0	5.8	5.8	8.0
10	65	3.0	11.0	7.2	7.9	7.2
11	35	7.0	17.0	10.8	10.5	8.1
12	30	11.0	21.0	14.4	13.5	8.3
13	31	11.0	23.0	17.9	17.1	8.1
14	25	12.0	32.0	22.6	21.2	8.2
15	27	20.0	37.0	27.4	25.9	8.1
16	12	24.0	40.0	30.4	31.3	7.4
18	1	44.0	44.0	44.0	44.1	7.5
20	1	56.0	56.0	56.0	60.0	7.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Mystus wyckii*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	1.1	8.0
6	3	2.0	2.0	2.0	1.8	9.3
7	1	3.0	3.0	3.0	2.8	8.7
8	2	4.0	7.0	5.5	4.0	10.7
9	3	3.0	6.0	5.0	5.6	6.9
10	2	5.0	7.0	6.0	7.4	6.0
11	1	10.0	10.0	10.0	9.7	7.5
12	3	8.0	15.0	11.3	12.3	6.6
13	1	17.0	17.0	17.0	15.3	7.7
14	3	16.0	21.0	19.0	18.8	6.9
15	5	16.0	30.0	23.0	22.7	6.8
17	1	30.0	30.0	30.0	32.1	6.1
19	2	47.0	60.0	53.5	43.6	7.8
20	3	49.0	54.0	51.0	50.3	6.4
21	4	52.0	80.0	64.0	63.8	6.9
22	2	70.0	70.0	70.0	73.9	6.6
23	1	90.0	90.0	90.0	84.9	7.4
25	1	94.0	94.0	94.0	110.4	6.0
26	1	155.0	155.0	155.0	124.9	8.8
27	1	151.0	151.0	151.0	140.6	7.7
29	2	175.0	205.0	190.0	176.0	7.8
30	1	210.0	210.0	210.0	195.8	7.8
32	1	205.0	205.0	205.0	239.9	6.3
35	1	305.0	305.0	305.0	317.9	7.1
37	1	365.0	365.0	365.0	378.6	7.2
39	1	410.0	410.0	410.0	446.7	6.9
40	1	525.0	525.0	525.0	483.7	8.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Nandus nandus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	4	1.0	2.0	1.5	1.1	23.4
5	23	1.0	3.0	2.3	2.1	18.1
6	15	2.0	4.0	3.5	3.6	16.0
7	21	2.0	9.0	5.3	5.7	15.4
8	16	5.0	12.0	9.2	8.4	18.1
9	6	11.0	18.0	14.2	11.8	19.4
10	2	15.0	20.0	17.5	16.1	17.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Nandus nebulosus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	66	1.0	3.0	1.4	1.1	21.3
5	104	1.0	4.0	1.9	2.1	15.6
6	73	2.0	6.0	3.6	3.7	16.5
7	92	3.0	10.0	6.6	6.0	19.1
8	94	6.0	15.0	9.8	9.1	19.1
9	16	8.0	15.0	12.9	13.2	17.7
10	2	17.0	21.0	19.0	18.3	19.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Notopterus chitala*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	1.0	1.0	1.0	0.8	4.6
7	1	1.0	1.0	1.0	1.3	2.9
8	1	2.0	2.0	2.0	2.1	3.9
9	2	2.0	4.0	3.0	3.2	4.1
11	1	8.0	8.0	8.0	6.4	6.0
13	2	11.0	15.0	13.0	11.4	5.9
17	1	25.0	25.0	25.0	29.2	5.1
18	2	30.0	32.0	31.0	33.3	5.3
21	1	60.0	60.0	60.0	55.8	6.5
26	5	110.0	144.0	122.0	114.0	6.9
27	1	132.0	132.0	132.0	129.4	6.7
28	2	126.0	150.0	138.0	146.2	6.3
29	8	140.0	170.0	163.6	164.4	6.7
30	2	185.0	200.0	192.5	184.2	7.1
32	2	195.0	225.0	210.0	228.7	6.4
33	1	255.0	255.0	255.0	253.5	7.1
34	1	250.0	250.0	250.0	245.9	6.4
35	3	275.0	322.0	290.7	269.7	6.8
37	1	310.0	310.0	310.0	322.1	6.1
42	2	470.0	505.0	487.5	483.0	6.6
44	1	520.0	520.0	520.0	560.4	6.1
46	1	730.0	730.0	730.0	645.9	7.5
47	1	780.0	780.0	780.0	691.8	7.5
49	1	802.0	802.0	802.0	790.3	6.8
51	1	980.0	980.0	980.0	898.1	7.4
55	3	760.0	1180.0	915.0	1143.2	5.5
57	1	1180.0	1180.0	1180.0	1281.4	6.4
60	2	1500.0	1540.0	1520.0	1509.6	7.0
63	1	1575.0	1575.0	1575.0	1764.2	6.3
64	1	1538.0	1538.0	1538.0	1855.3	5.9
66	2	1800.0	2500.0	2150.0	2047.0	7.5
67	1	2300.0	2300.0	2300.0	2147.7	7.6
72	1	3400.0	3400.0	3400.0	2703.0	9.1
75	1	3200.0	3200.0	3200.0	3079.6	7.6
78	1	4300.0	4300.0	4300.0	3490.8	9.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Notopterus notopterus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	9	1.0	1.0	1.0	0.7	15.6
5	15	1.0	2.0	1.5	1.3	11.7
6	22	1.0	5.0	2.5	2.1	11.8
7	29	1.0	6.0	3.1	3.1	8.9
8	27	1.0	6.0	3.9	4.3	7.7
9	25	4.0	9.0	5.8	5.9	7.9
10	36	5.0	11.0	7.6	7.8	7.6
11	54	4.0	20.0	9.5	10.0	7.1
12	45	8.0	20.0	12.3	12.5	7.1
13	33	10.0	77.0	17.3	15.4	7.9
14	28	13.0	27.0	18.5	18.6	6.7
15	32	14.0	33.0	23.7	22.3	7.0
16	24	21.0	61.0	29.0	26.4	7.1
17	35	20.0	44.0	33.5	30.9	6.8
18	23	20.0	52.0	39.8	35.8	6.8
19	24	25.0	70.0	50.1	44.8	7.3
20	41	44.0	79.0	56.5	53.4	7.1
21	30	50.0	85.0	65.0	63.1	7.0
22	52	38.0	96.0	66.5	73.9	6.2
23	32	65.0	130.0	88.7	86.0	7.3
24	27	85.0	120.0	101.1	99.4	7.3
25	27	90.0	155.0	116.9	114.2	7.5
26	20	100.0	157.0	130.8	130.5	7.4
27	21	130.0	184.0	153.9	148.4	7.8
28	8	160.0	215.0	172.9	167.9	7.9
29	8	170.0	220.0	195.4	189.2	8.0
30	3	120.0	260.0	186.7	212.4	6.9
31	3	218.0	265.0	241.0	237.5	8.1
32	5	250.0	300.0	286.0	264.6	8.7
33	3	320.0	340.0	326.7	293.8	9.1
34	5	305.0	370.0	336.0	325.2	8.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Ompok bimaculatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	5	1.0	3.0	1.8	1.3	8.3
7	10	1.0	5.0	2.4	2.1	7.0
8	19	1.0	4.0	2.9	3.1	5.8
9	10	2.0	6.0	4.7	4.6	6.4
10	8	5.0	8.0	6.5	6.3	6.5
11	20	4.0	11.0	9.0	8.6	6.8
12	35	7.0	21.0	11.5	11.3	6.7
13	27	10.0	20.0	15.3	14.5	6.9
14	29	12.0	23.0	18.4	18.2	6.7
15	19	10.0	29.0	22.3	22.7	6.6
16	14	19.0	35.0	27.6	28.8	6.7
17	9	34.0	44.0	38.2	32.7	7.8
18	10	21.0	45.0	34.9	36.9	6.0
19	8	20.0	61.0	46.0	41.4	6.7
20	9	29.0	72.0	45.2	46.1	5.6
21	7	40.0	78.0	54.1	51.1	5.8
22	2	39.0	76.0	57.5	56.4	5.4
23	5	53.0	90.0	69.8	62.0	5.7
24	1	66.0	66.0	66.0	67.8	4.8
25	1	54.0	54.0	54.0	73.9	3.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Ophicephalus gachua*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	2.0	2.0	2.0	1.2	16.0
6	1	2.0	2.0	2.0	2.1	9.3
8	2	5.0	6.0	5.5	5.0	10.7
9	6	4.0	8.0	6.2	7.2	8.5
10	10	4.0	13.0	9.6	9.8	9.6
11	12	10.0	18.0	13.0	13.1	9.8
12	10	13.0	24.0	18.9	17.0	10.9
13	7	22.0	29.0	24.1	21.6	11.0
14	7	21.0	34.0	28.7	27.0	10.5
15	3	30.0	37.0	33.7	33.2	10.0
16	1	31.0	31.0	31.0	40.3	7.6
17	1	39.0	39.0	39.0	48.4	7.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Ophicephalus lucius*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	3	1.0	3.0	2.3	1.0	18.7
6	4	1.0	4.0	2.2	1.8	10.4
7	7	2.0	4.0	3.0	2.9	8.7
8	3	5.0	5.0	5.0	4.4	10.0
9	9	5.0	9.0	6.1	6.3	8.4
10	12	6.0	12.0	7.7	8.7	7.7
11	19	6.0	15.0	11.1	11.6	8.3
12	15	10.0	20.0	14.7	15.2	8.4
13	22	13.0	25.0	19.3	19.4	8.8
14	15	17.0	35.0	22.5	24.4	8.2
15	24	25.0	40.0	30.9	30.1	9.1
16	17	20.0	42.0	36.5	36.7	8.9
17	7	40.0	50.0	45.3	44.3	9.2
18	14	48.0	62.0	55.6	52.7	9.5
19	9	60.0	76.0	65.6	62.2	9.6
20	16	69.0	92.0	79.1	72.8	9.9
21	10	70.0	98.0	90.7	84.6	9.8
22	9	90.0	120.0	103.9	97.6	9.8
23	10	95.0	130.0	112.4	111.8	9.2
24	5	130.0	155.0	142.8	138.7	10.3
25	6	140.0	163.0	154.5	157.4	9.9
26	8	143.0	215.0	177.9	177.7	10.1
27	4	170.0	220.0	197.5	199.6	10.0
28	5	210.0	240.0	230.0	223.4	10.5
29	6	220.0	270.0	242.2	249.0	9.9
30	5	273.0	305.0	284.6	276.5	10.5
31	11	250.0	330.0	301.4	306.0	10.1
32	2	340.0	360.0	350.0	337.6	10.7
33	4	340.0	375.0	353.7	371.3	9.8
34	2	370.0	435.0	402.5	407.2	10.2
35	2	463.0	550.0	506.5	445.4	11.8
40	2	750.0	875.0	812.5	673.1	12.7
46	1	955.0	955.0	955.0	1037.0	9.8
51	1	1210.0	1210.0	1210.0	1426.8	9.1
55	1	1835.0	1835.0	1835.0	1802.3	11.0
56	2	1740.0	1925.0	1832.5	1905.5	10.4
57	1	2135.0	2135.0	2135.0	2013.0	11.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Ophicephalus micropeltes*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	1	1.0	1.0	1.0	0.4	37.0
4	2	1.0	1.0	1.0	0.8	15.6
5	1	1.0	1.0	1.0	1.5	8.0
6	2	2.0	2.0	2.0	2.4	9.3
7	2	2.0	3.0	2.5	3.7	7.3
8	2	3.0	4.0	3.5	5.4	6.8
14	1	29.0	29.0	29.0	24.7	10.6
15	1	31.0	31.0	31.0	29.8	9.2
16	4	34.0	37.0	35.7	35.5	8.7
17	5	41.0	49.0	45.0	41.9	9.2
18	4	50.0	57.0	52.5	49.0	9.0
19	7	45.0	66.0	59.4	56.7	8.7
20	3	65.0	85.0	77.0	72.4	9.6
21	3	80.0	80.0	80.0	83.7	8.6
22	2	92.0	92.0	92.0	96.2	8.6
23	5	105.0	115.0	111.0	109.8	9.1
24	7	110.0	130.0	118.9	124.7	8.6
25	3	135.0	150.0	141.7	140.8	9.1
26	4	150.0	210.0	177.5	158.3	10.1
27	3	165.0	175.0	171.7	177.2	8.7
28	2	185.0	210.0	197.5	197.5	9.0
29	2	196.0	210.0	203.0	217.3	8.3
30	4	220.0	260.0	243.7	242.6	9.0
32	3	325.0	335.0	330.0	294.1	10.1
33	2	315.0	350.0	332.5	322.4	9.2
34	1	390.0	390.0	390.0	352.4	9.9
35	2	338.0	400.0	369.0	384.2	8.6
36	1	380.0	380.0	380.0	417.9	8.1
37	1	385.0	385.0	385.0	453.5	7.6
38	2	415.0	465.0	440.0	480.8	8.0
39	2	520.0	550.0	535.0	522.8	9.0
40	5	580.0	605.0	593.0	567.3	9.3
41	3	570.0	640.0	613.3	614.4	8.9
42	2	530.0	655.0	592.5	664.0	8.0
44	3	770.0	840.0	810.0	771.5	9.5
45	4	740.0	955.0	853.7	829.6	9.4
47	1	890.0	890.0	890.0	954.5	8.6
50	3	1180.0	1255.0	1225.0	1165.3	9.8
59	1	1600.0	1600.0	1600.0	1987.6	7.8
65	1	2500.0	2500.0	2500.0	2716.5	9.1
69	1	3125.0	3125.0	3125.0	3293.6	9.5
70	1	4200.0	4200.0	4200.0	3450.1	12.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Ophicephalus striatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	25	1.0	2.0	1.1	1.0	8.6
6	41	1.0	4.0	1.9	1.8	8.9
7	56	1.0	5.0	2.8	2.9	8.3
8	72	2.0	8.0	4.5	4.4	8.9
9	54	3.0	12.0	6.7	6.3	9.2
10	55	6.0	15.0	9.2	8.7	9.2
11	61	8.0	20.0	11.5	11.7	8.6
12	68	10.0	28.0	16.0	15.4	9.2
13	79	14.0	43.0	20.4	19.7	9.3
14	78	13.0	44.0	24.6	24.8	9.0
15	68	16.0	78.0	30.2	30.0	8.9
16	79	19.0	45.0	36.1	36.3	8.8
17	80	27.0	63.0	44.5	43.3	9.1
18	86	23.0	80.0	52.1	51.2	8.9
19	70	43.0	80.0	59.8	60.0	8.7
20	69	54.0	95.0	71.1	69.8	8.9
21	73	55.0	108.0	81.2	80.5	8.8
22	73	70.0	145.0	93.9	92.3	8.8
23	61	84.0	164.0	109.7	105.2	9.0
24	47	95.0	174.0	124.8	119.2	9.0
25	48	90.0	190.0	135.6	134.3	8.7
26	59	110.0	220.0	153.9	150.7	8.8
27	37	119.0	205.0	164.9	168.3	8.4
28	42	125.0	270.0	185.7	187.3	8.5
29	39	115.0	245.0	197.8	207.6	8.1
30	28	200.0	300.0	232.1	229.3	8.6
31	23	215.0	380.0	252.3	248.4	8.5
32	24	230.0	360.0	279.4	273.9	8.5
33	17	260.0	340.0	298.9	301.2	8.3
34	6	270.0	340.0	322.0	330.2	8.2
35	14	250.0	410.0	348.9	361.0	8.1
36	15	265.0	540.0	393.8	393.7	8.4
37	11	360.0	515.0	435.9	428.3	8.6
38	10	320.0	485.0	418.0	465.0	7.6
39	9	495.0	660.0	553.4	503.7	9.3
40	11	465.0	750.0	566.4	544.6	8.8
41	6	570.0	720.0	641.7	587.6	9.3
42	4	670.0	770.0	697.5	632.8	9.4
43	3	640.0	730.0	678.3	680.4	8.5
44	8	655.0	900.0	795.6	730.3	9.3
45	5	645.0	750.0	698.0	782.6	7.7
46	3	775.0	915.0	830.0	837.4	8.5
47	5	850.0	1090.0	949.8	894.7	9.1
48	2	630.0	942.0	786.0	954.6	7.1
49	4	927.0	1052.0	1000.2	1017.2	8.5
50	2	1010.0	1016.0	1013.0	1082.5	8.1
51	2	1065.0	1285.0	1175.0	1150.6	8.9
52	1	1159.0	1159.0	1159.0	1221.4	8.2
53	1	1325.0	1325.0	1325.0	1295.2	8.9
54	1	1365.0	1365.0	1365.0	1371.9	8.7
55	1	1515.0	1515.0	1515.0	1451.7	9.1
56	1	1470.0	1470.0	1470.0	1534.5	8.4
60	1	2200.0	2200.0	2200.0	1897.7	10.2
61	1	1775.0	1775.0	1775.0	1996.8	7.8
62	1	2015.0	2015.0	2015.0	2099.3	8.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osphronemus goramy*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	1.0	3.0	2.0	2.2	16.0
6	5	1.0	6.0	3.4	3.8	15.7
7	9	5.0	10.0	6.3	6.0	18.5
8	12	8.0	15.0	10.0	9.0	19.5
9	8	10.0	15.0	13.2	12.8	18.2
10	13	12.0	20.0	18.5	17.6	18.5
11	21	19.0	39.0	25.3	23.5	10.0
12	5	20.0	31.0	27.6	30.6	16.0
13	5	37.0	45.0	40.8	39.0	18.6
14	7	37.0	60.0	47.3	48.8	17.2
15	5	25.0	76.0	56.0	60.1	16.6
16	11	56.0	90.0	77.3	73.1	18.9
17	8	61.0	95.0	87.9	87.8	17.9
18	6	78.0	120.0	103.0	104.3	17.7
19	1	105.0	105.0	105.0	122.9	15.3
20	3	125.0	150.0	138.3	143.5	17.3
21	2	165.0	200.0	182.5	166.3	19.7
22	1	190.0	190.0	190.0	191.5	17.8
24	3	205.0	240.0	223.3	249.1	16.1
25	3	215.0	340.0	276.7	281.9	17.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus duostigma*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
9	3	8.0	9.0	8.3	7.2	11.4
10	4	8.0	11.0	9.7	10.1	9.7
11	1	8.0	8.0	8.0	13.9	6.0
12	4	16.0	25.0	19.5	18.5	11.3
13	1	22.0	22.0	22.0	24.2	10.0
14	1	37.0	37.0	37.0	30.9	13.5
18	2	70.0	76.0	73.0	70.8	12.5
19	2	80.0	90.0	85.0	84.7	12.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus hasseltii*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	34	1.0	2.0	1.1	1.4	9.2
6	57	1.0	6.0	2.7	2.4	12.7
7	76	2.0	8.0	4.7	4.0	13.8
8	115	2.0	10.0	6.5	6.1	12.7
9	85	5.0	14.0	8.9	8.8	12.2
10	69	7.0	15.0	11.9	12.3	11.9
11	67	11.0	25.0	16.0	16.6	12.0
12	65	14.0	31.0	21.2	21.9	12.3
13	49	20.0	45.0	29.2	28.2	13.3
14	55	26.0	51.0	37.1	35.6	13.5
15	48	35.0	59.0	45.1	44.7	13.4
16	58	37.0	79.0	54.8	54.6	13.4
17	29	50.0	95.0	69.5	65.9	14.1
18	37	50.0	100.0	79.3	78.7	13.6
19	20	85.0	110.0	97.1	93.1	14.2
20	37	85.0	170.0	109.2	109.2	13.6
21	61	100.0	175.0	123.2	127.1	13.3
22	51	120.0	175.0	146.1	146.8	13.7
23	71	100.0	210.0	173.7	168.5	14.3
24	49	160.0	235.0	195.7	192.3	14.2
25	17	130.0	260.0	215.9	218.3	13.8
26	5	235.0	330.0	272.0	246.6	15.5
27	3	155.0	270.0	231.7	277.3	11.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus lini*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
9	4	5.0	9.0	6.7	6.4	9.3
10	18	6.0	12.0	8.5	8.6	8.5
11	15	10.0	14.0	11.9	11.2	8.9
12	28	10.0	19.0	14.1	14.3	8.2
13	14	16.0	23.0	18.5	17.9	8.4
14	7	20.0	26.0	23.4	22.0	8.5
15	3	22.0	24.0	23.0	26.7	6.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus melanopleura*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	1.0	1.0	1.0	1.0	8.0
8	1	5.0	5.0	5.0	4.8	9.8
13	1	26.0	26.0	26.0	24.2	11.8
15	1	36.0	36.0	36.0	38.9	10.7
18	1	67.0	67.0	67.0	70.3	11.5
19	1	90.0	90.0	90.0	82.9	12.1
23	2	150.0	155.0	152.5	148.7	12.5
24	1	150.0	150.0	150.0	169.4	10.8
30	2	330.0	360.0	345.0	334.9	12.8
32	1	400.0	400.0	400.0	407.9	12.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus spilopleura*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	2	3.0	4.0	3.5	3.0	10.2
8	6	4.0	7.0	5.2	4.6	10.1
9	11	5.0	9.0	6.4	6.5	8.7
10	7	7.0	10.0	8.3	9.0	8.3
11	12	10.0	14.0	12.2	12.1	9.2
12	9	14.0	17.0	15.2	15.8	8.8
13	17	15.0	27.0	19.3	20.2	8.8
14	22	20.0	31.0	26.1	25.3	9.5
15	33	26.0	40.0	32.0	31.3	9.5
16	62	30.0	47.0	38.9	38.1	9.5
17	17	34.0	51.0	44.3	45.9	9.0
18	4	49.0	59.0	54.5	54.7	9.3
19	3	71.0	89.0	82.0	86.3	12.0
20	5	92.0	125.0	106.2	99.1	13.3
21	4	85.0	122.0	110.7	113.1	12.0
22	1	125.0	125.0	125.0	128.3	11.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Osteochilus vittatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	5	1.0	2.0	1.2	1.1	9.6
6	7	1.0	3.0	2.3	1.9	10.6
7	18	2.0	4.0	3.1	3.2	8.9
8	18	3.0	7.0	5.2	4.9	10.1
9	24	5.0	10.0	7.1	7.2	9.8
10	16	7.0	12.0	10.0	10.0	10.0
11	13	11.0	18.0	13.5	13.7	10.2
12	10	15.0	25.0	19.4	18.1	11.2
13	3	22.0	39.0	28.3	23.4	12.9
14	2	21.0	31.0	26.0	29.7	9.5
15	1	42.0	42.0	42.0	37.0	12.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Oxyeleotris* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	1	1.0	1.0	1.0	0.4	37.0
4	5	1.0	1.0	1.0	0.9	15.6
5	3	1.0	2.0	1.3	1.6	10.7
6	7	2.0	3.0	2.3	2.6	10.6
7	5	3.0	4.0	3.6	3.9	10.5
8	13	4.0	6.0	5.3	5.5	10.4
9	7	7.0	10.0	7.9	7.5	10.8
10	6	8.0	11.0	9.7	9.9	9.7
11	5	14.0	16.0	14.8	12.8	11.1
12	3	19.0	22.0	20.3	16.0	11.8
13	2	22.0	25.0	23.5	22.4	10.7
14	1	22.0	22.0	22.0	29.4	8.0
15	1	45.0	45.0	45.0	37.9	13.3
16	1	50.0	50.0	50.0	48.0	12.2
18	2	70.0	80.0	75.0	73.9	12.9
23	1	175.0	175.0	175.0	181.2	14.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Oxyeleotris marmoratus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	1.0	1.0	1.0	1.2	8.0
6	6	1.0	4.0	2.7	2.2	12.3
7	5	4.0	5.0	4.4	3.7	12.8
8	1	6.0	6.0	6.0	5.7	11.7
9	11	5.0	11.0	8.2	8.4	11.2
10	12	8.0	14.0	10.9	11.8	10.9
11	12	9.0	20.0	17.1	16.2	12.8
12	17	12.0	29.0	21.1	21.4	12.2
13	12	18.0	36.0	29.3	27.8	13.3
14	7	32.0	45.0	40.4	35.4	14.7
15	20	33.0	49.0	42.7	44.4	12.6
16	8	50.0	71.0	59.0	54.8	14.4
17	3	60.0	71.0	66.0	63.8	13.4
18	6	62.0	90.0	80.3	77.1	13.8
19	2	55.0	100.0	77.5	92.3	11.3
20	1	115.0	115.0	115.0	109.4	14.4
21	1	120.0	120.0	120.0	128.7	13.0
22	3	150.0	175.0	165.0	150.2	15.5
24	2	160.0	210.0	185.0	200.5	13.4
25	2	210.0	265.0	237.5	229.7	15.2
27	1	275.0	275.0	275.0	296.6	14.0
29	1	380.0	380.0	380.0	376.1	15.6
30	1	425.0	425.0	425.0	420.9	15.7
31	1	500.0	500.0	500.0	469.4	16.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Oxygaster oxygastroides*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	8	2.0	4.0	2.7	1.0	22.0
6	16	1.0	5.0	2.3	1.7	10.7
7	42	1.0	6.0	2.7	2.7	8.0
8	21	2.0	6.0	4.0	4.1	7.8
9	59	3.0	8.0	5.1	5.7	7.1
10	84	5.0	16.0	6.7	7.8	6.7
11	49	4.0	19.0	8.9	10.4	6.7
12	93	7.0	20.0	15.8	13.4	9.1
13	74	13.0	24.0	19.5	16.9	8.9
14	14	14.0	29.0	22.6	21.0	8.2
15	2	19.0	37.0	28.0	25.7	8.3

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Oxygaster siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	4	1.0	2.0	1.2	0.7	10.0
6	7	1.0	2.0	1.4	1.3	6.6
7	16	2.0	4.0	2.4	2.2	7.1
8	25	2.0	5.0	3.4	3.5	6.6
9	63	3.0	10.0	5.1	5.1	7.0
10	69	4.0	13.0	7.0	7.3	7.0
11	50	8.0	15.0	10.6	9.9	7.9
12	33	7.0	21.0	14.3	13.2	8.3
13	19	15.0	23.0	18.8	17.2	8.5
14	11	19.0	26.0	23.3	23.5	8.5
15	4	28.0	34.0	30.5	28.7	9.0
17	4	40.0	45.0	41.2	41.4	8.4
19	1	55.0	55.0	55.0	57.2	8.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Pangasius siamensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
16	1	32.0	32.0	32.0	28.8	7.8
17	9	31.0	37.0	34.4	33.4	7.0
18	19	32.0	43.0	37.7	38.4	6.5
19	21	36.0	50.0	43.5	43.9	6.3
20	9	46.0	60.0	50.1	49.8	6.3
21	3	61.0	63.0	62.0	56.2	6.7
22	1	61.0	61.0	61.0	63.0	5.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Pangasius sutchi*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
33	1	230.0	230.0	230.0	244.6	6.4
34	1	250.0	250.0	250.0	272.6	6.4
37	1	415.0	415.0	415.0	370.3	8.2
38	1	385.0	385.0	385.0	407.9	7.0
39	1	415.0	415.0	415.0	448.2	7.0
41	1	555.0	555.0	555.0	537.2	8.0
42	3	580.0	650.0	616.7	586.2	8.3
43	1	730.0	730.0	730.0	638.4	9.2
52	1	1125.0	1125.0	1125.0	1270.9	8.0
55	1	1520.0	1520.0	1520.0	1557.4	9.1
56	1	1600.0	1600.0	1600.0	1516.3	9.1
65	2	2300.0	2620.0	2460.0	2584.1	9.0
71	1	3000.0	3000.0	3000.0	3543.9	8.4
74	1	5000.0	5000.0	5000.0	4109.3	12.3
75	1	4500.0	4500.0	4500.0	4311.5	10.7
87	1	7600.0	7600.0	7600.0	7331.7	11.5
90	1	7800.0	7800.0	7800.0	8277.0	10.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Paralaubuca* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
7	3	2.0	2.0	2.0	2.7	5.8
8	3	4.0	4.0	4.0	3.8	7.8
9	3	4.0	7.0	5.3	5.2	7.3
10	12	4.0	12.0	8.1	6.8	8.1
11	18	6.0	12.0	9.4	8.8	7.1
12	16	6.0	15.0	10.6	11.0	6.1
13	7	6.0	15.0	12.7	13.5	5.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Polynemus paradiseus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
12	6	8.0	10.0	9.7	9.2	5.6
13	6	10.0	14.0	12.0	11.7	5.5
14	31	12.0	18.0	14.8	14.6	5.4
15	51	14.0	28.0	17.7	18.0	5.2
16	24	12.0	26.0	21.4	21.7	5.2
17	11	21.0	35.0	27.3	26.1	5.5
18	10	30.0	35.0	32.5	30.9	5.6
19	5	25.0	39.0	34.8	36.4	5.1
20	2	49.0	49.0	49.0	42.4	6.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Pristolepis fasciatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	51	1.0	8.0	2.4	1.2	37.1
5	125	1.0	8.0	2.6	2.5	20.6
6	174	2.0	10.0	4.4	4.5	20.5
7	211	4.0	14.0	7.4	7.3	21.6
8	184	5.0	20.0	11.0	11.1	21.5
9	175	10.0	24.0	16.3	16.2	22.4
10	201	10.0	37.0	23.3	22.6	23.3
11	205	20.0	49.0	31.4	30.5	23.6
12	188	25.0	64.0	42.3	40.1	24.5
13	167	37.0	71.0	51.8	51.9	23.6
14	111	48.0	88.0	67.2	65.3	24.5
15	77	59.0	100.0	82.3	80.7	24.4
16	53	79.0	125.0	97.9	98.5	23.9
17	55	85.0	145.0	117.7	118.7	23.9
18	41	105.0	190.0	142.8	141.6	24.5
19	21	145.0	205.0	171.2	168.6	25.0
20	12	175.0	215.0	193.3	197.6	24.2
21	6	205.0	285.0	233.0	229.8	25.2
22	4	235.0	310.0	267.2	265.4	25.1
23	1	260.0	260.0	260.0	304.6	21.4
24	2	355.0	395.0	375.0	347.5	27.1
27	1	510.0	510.0	510.0	500.5	25.9
31	1	765.0	765.0	765.0	767.8	25.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Probarbus jullieni*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	3.0	3.0	3.0	2.0	13.9
7	4	2.0	4.0	2.5	3.2	7.3
8	11	5.0	7.0	5.4	4.9	10.6
9	11	5.0	10.0	6.9	7.0	9.5
10	7	7.0	12.0	10.0	9.6	10.0
11	1	11.0	11.0	11.0	12.9	8.3
12	1	17.0	17.0	17.0	16.9	9.8

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius altus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	4	1.0	2.0	1.5	1.0	23.4
5	9	1.0	2.0	1.6	1.9	12.4
6	3	2.0	4.0	2.7	3.2	12.3
7	8	4.0	10.0	7.5	5.1	21.9
8	6	5.0	7.0	6.0	7.7	11.7
9	1	16.0	16.0	16.0	10.9	21.9
10	4	14.0	20.0	16.0	14.9	16.0
11	2	17.0	22.0	19.5	19.8	14.6
12	3	24.0	30.0	27.0	26.4	15.6
13	1	30.0	30.0	30.0	34.8	13.6
14	3	45.0	50.0	46.7	44.9	17.0
18	1	105.0	105.0	105.0	106.4	18.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius daruphani*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	3.0	3.0	3.0	3.0	13.9
7	1	5.0	5.0	5.0	4.6	14.6
8	4	5.0	7.0	6.0	6.7	11.7
9	6	8.0	14.0	10.0	9.3	13.7
10	6	10.0	15.0	13.2	12.5	13.2
11	3	15.0	20.0	17.3	16.2	13.0
12	7	16.0	22.0	19.7	20.7	11.4
13	8	25.0	28.0	25.9	25.8	11.8
14	4	27.0	40.0	33.7	33.5	12.3
15	3	40.0	45.0	41.7	42.9	12.3
16	1	60.0	60.0	60.0	54.0	14.6
17	1	65.0	65.0	65.0	67.0	13.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius gonionotus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	5	2.0	2.0	2.0	1.6	16.0
6	9	2.0	3.0	2.8	2.8	12.9
7	1	4.0	4.0	4.0	4.5	11.7
8	2	6.0	6.0	6.0	6.7	11.7
9	1	6.0	6.0	6.0	9.5	8.2
10	8	10.0	15.0	12.4	13.1	12.4
11	6	11.0	24.0	16.5	17.4	12.4
12	9	19.0	28.0	22.8	22.6	13.2
13	21	24.0	34.0	28.4	28.8	12.9
14	21	29.0	48.0	37.7	35.9	13.7
15	30	27.0	56.0	45.5	44.2	13.5
16	17	45.0	75.0	58.3	53.7	14.2
17	19	40.0	73.0	61.9	64.4	12.6
18	26	60.0	95.0	72.9	76.4	12.5
19	19	80.0	125.0	97.2	89.9	14.2
20	15	94.0	135.0	106.5	104.9	13.3
21	17	110.0	160.0	131.6	132.2	14.2
22	15	135.0	190.0	153.7	151.4	14.4
23	9	160.0	210.0	175.7	172.3	14.4
24	6	185.0	225.0	200.2	195.0	14.5
25	8	180.0	245.0	211.9	219.6	13.6
26	2	265.0	265.0	265.0	246.2	15.1
27	2	255.0	305.0	280.0	274.7	14.2
28	1	370.0	370.0	370.0	305.4	16.8
29	2	300.0	370.0	335.0	338.2	13.7
31	4	355.0	435.0	397.5	410.7	13.3
33	3	445.0	510.0	471.7	492.6	13.1
34	1	535.0	535.0	535.0	537.3	13.6
43	1	1150.0	1150.0	1150.0	1064.0	14.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius leiacanthus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	28	1.0	2.0	1.3	0.3	20.1
5	147	1.0	6.0	1.6	1.5	12.6
6	217	1.0	6.0	2.7	2.7	12.6
7	254	2.0	8.0	4.7	4.3	13.6
8	409	3.0	10.0	6.4	6.4	12.6
9	186	5.0	16.0	9.6	9.2	13.2
10	92	6.0	19.0	13.6	12.7	13.6
11	51	11.0	24.0	17.2	16.9	12.9
12	21	18.0	30.0	21.7	22.1	12.5
14	1	40.0	40.0	40.0	35.2	14.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius orphoides*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	1.0	15.6
5	1	2.0	2.0	2.0	1.9	16.0
6	2	4.0	4.0	4.0	3.2	18.5
7	1	4.0	4.0	4.0	5.1	11.7
8	2	7.0	10.0	8.5	7.5	16.6
9	6	7.0	15.0	10.7	10.6	14.6
10	7	11.0	16.0	13.4	14.4	13.4
11	1	18.0	18.0	18.0	19.0	13.5
12	5	21.0	26.0	24.0	24.5	13.9
13	1	26.0	26.0	26.0	31.0	11.8
16	3	65.0	72.0	68.0	56.9	16.6
17	1	70.0	70.0	70.0	67.9	14.2
19	1	90.0	90.0	90.0	94.0	13.1
21	1	135.0	135.0	135.0	126.0	14.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius partipentazona*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	6	1.0	1.0	1.0	0.9	15.6
5	15	1.0	3.0	1.7	1.6	13.3
6	3	3.0	4.0	3.3	2.7	15.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius sametensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	8	2.0	5.0	2.9	2.8	13.3
7	9	3.0	6.0	4.4	4.2	13.0
8	10	4.0	8.0	6.2	6.1	12.1
9	2	7.0	9.0	8.0	8.3	11.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntius schwanenfeldii*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	2	1.0	2.0	1.5	0.7	23.4
5	8	1.0	3.0	2.0	1.4	16.0
6	53	2.0	5.0	2.6	2.5	12.1
7	61	2.0	6.0	4.0	4.1	11.8
8	56	4.0	8.0	5.6	6.2	11.6
9	47	6.0	14.0	8.9	9.0	12.3
10	42	8.0	18.0	12.8	12.5	12.8
11	25	14.0	22.0	18.0	16.8	13.5
12	10	16.0	26.0	21.9	22.1	12.7
13	7	25.0	35.0	30.7	28.4	14.0
14	6	35.0	47.0	42.3	35.8	15.4
15	4	44.0	50.0	47.7	44.5	14.1
16	1	55.0	55.0	55.0	54.4	13.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Puntioplites proctozysron*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	26	1.0	2.0	1.3	1.4	10.1
6	36	1.0	4.0	2.1	2.3	9.5
7	69	2.0	9.0	3.9	3.8	11.3
8	86	3.0	10.0	6.2	5.8	12.0
9	55	6.0	12.0	8.8	8.4	12.1
10	48	7.0	20.0	11.9	11.8	11.9
11	36	14.0	27.0	18.0	16.1	13.5
12	31	11.0	27.0	21.2	21.2	12.2
13	45	20.0	60.0	31.2	27.5	14.2
14	47	28.0	80.0	38.8	34.8	14.1
15	86	32.0	100.0	48.6	43.5	14.4
16	114	38.0	116.0	55.4	53.5	13.5
17	98	50.0	100.0	64.7	65.0	13.2
18	84	50.0	150.0	79.9	78.0	13.7
19	65	50.0	150.0	95.4	92.8	13.9
20	75	80.0	150.0	112.3	109.4	14.0
21	84	70.0	180.0	125.4	128.0	13.5
22	90	100.0	200.0	142.7	148.6	13.4
23	57	120.0	230.0	170.6	171.4	14.0
24	38	110.0	265.0	184.1	196.4	13.3
25	28	150.0	285.0	208.0	223.9	13.3
26	21	170.0	300.0	231.9	235.1	13.2
27	18	190.0	300.0	256.5	254.1	13.0
28	16	155.0	370.0	287.5	273.9	13.1
29	10	230.0	410.0	341.0	294.4	14.0
30	10	230.0	450.0	320.0	315.7	11.8
31	3	280.0	470.0	353.3	337.8	11.9
32	4	230.0	370.0	287.5	360.6	8.8
33	2	340.0	360.0	350.0	384.2	9.7
34	2	250.0	520.0	385.0	408.6	9.8
37	1	490.0	490.0	490.0	486.4	9.7
44	1	900.0	900.0	900.0	695.0	10.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Rasbora* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	7	1.0	2.0	1.3	1.3	5.9
7	19	1.0	5.0	2.7	2.5	7.8
8	16	3.0	8.0	5.2	4.3	10.1
9	4	5.0	6.0	5.5	7.0	7.5
10	2	8.0	9.0	8.5	10.8	8.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Rasbora argyrotaenia*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	0.5	15.6
5	2	1.0	1.0	1.0	1.1	8.0
6	3	1.0	2.0	1.7	1.9	7.7
7	8	2.0	5.0	3.4	3.0	9.8
8	18	3.0	5.0	4.6	4.5	8.9
9	34	4.0	9.0	6.1	6.5	8.4
10	75	5.0	14.0	9.3	8.9	9.3
11	40	7.0	20.0	12.2	11.9	9.1
12	7	14.0	19.0	16.1	15.5	9.3
13	1	15.0	15.0	15.0	19.8	6.8
14	1	30.0	30.0	30.0	24.8	10.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Rasbora borapetensis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
3	3	1.0	1.0	1.0	1.2	37.0
4	30	1.0	7.0	2.5	1.7	39.6
5	20	1.0	7.0	3.5	2.1	28.4
6	7	1.0	3.0	1.3	2.6	5.9
7	8	2.0	3.0	2.2	3.1	6.6
8	8	2.0	4.0	3.6	3.6	7.1
9	8	5.0	6.0	5.4	4.0	7.4
10	2	8.0	10.0	9.0	4.5	9.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Rasbora retrodorsalis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	1	1.0	1.0	1.0	0.6	8.0
6	4	1.0	2.0	1.5	1.1	6.9
7	14	1.0	3.0	1.8	1.8	5.2
8	17	2.0	4.0	2.9	2.8	5.6
9	13	2.0	6.0	4.0	4.2	5.5
10	9	5.0	10.0	7.0	5.8	7.0
11	1	10.0	10.0	10.0	8.0	7.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Rasbora trilineata*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	3	1.0	1.0	1.0	1.0	15.6
5	5	1.0	2.0	1.6	1.5	12.8
6	10	1.0	3.0	2.0	1.9	9.3
7	5	2.0	3.0	2.4	2.4	7.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Setipinna melanochir*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
11	1	8.0	8.0	8.0	5.6	6.0
12	2	9.0	10.0	9.5	9.3	5.5
15	1	17.0	17.0	17.0	19.0	5.0
16	2	20.0	24.0	22.0	23.3	5.4
17	2	26.0	28.0	27.0	28.3	5.5
21	1	59.0	59.0	59.0	55.7	6.4
24	1	95.0	95.0	95.0	85.4	6.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Septipinna taty*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
10	1	5.0	5.0	5.0	6.0	5.0
11	17	6.0	10.0	7.9	7.5	5.9
12	13	6.0	12.0	8.9	9.2	5.2
13	4	10.0	15.0	12.5	11.1	5.7
14	3	11.0	15.0	12.7	13.3	4.6
16	1	19.0	19.0	19.0	18.2	4.6

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Synaptura aenea*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	1	1.0	1.0	1.0	1.2	15.6
5	2	2.0	3.0	2.5	2.2	20.0
6	2	3.0	3.0	3.0	3.4	13.9
7	2	4.0	6.0	5.0	5.1	14.6
8	1	11.0	11.0	11.0	7.1	21.5
10	1	15.0	15.0	15.0	12.4	15.0
11	6	14.0	20.0	17.0	15.8	12.8
12	3	10.0	21.0	16.3	19.7	9.4
13	2	24.0	40.0	32.0	30.8	14.6
15	4	42.0	50.0	46.5	46.8	13.8
16	4	54.0	68.0	58.5	56.5	14.3
17	1	59.0	59.0	59.0	67.4	12.0
18	1	75.0	75.0	75.0	79.7	12.9
20	3	105.0	121.0	115.3	108.5	14.4
21	1	115.0	115.0	115.0	125.2	12.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Tetraodon* sp.

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	5	2.0	11.0	6.4	3.3	29.6
7	9	4.0	21.0	12.5	9.9	36.6
8	13	7.0	25.0	14.8	15.0	28.8
9	5	23.0	46.0	34.2	21.8	46.9
10	7	24.0	48.0	33.6	30.5	33.6
11	7	30.0	42.0	37.3	41.2	28.0
12	9	40.0	59.0	52.1	54.3	30.2

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Tetraodon leiurus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
4	11	1.0	2.0	1.5	2.0	24.1
5	9	2.0	5.0	3.6	3.7	28.4
6	18	3.0	13.0	6.9	6.3	32.1
7	21	5.0	14.0	10.0	9.7	29.1
8	77	8.0	24.0	16.5	14.1	32.2
9	63	9.0	38.0	20.4	19.6	28.0
10	33	11.0	40.0	27.0	26.3	27.0
11	16	16.0	49.0	30.5	34.4	22.9
13	7	20.0	50.0	26.6	55.1	15.4
14	1	80.0	80.0	80.0	67.9	29.1

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Tilapia nilotica*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
8	2	10.0	10.0	10.0	8.6	19.5
9	9	10.0	15.0	11.8	12.6	16.2
10	7	15.0	22.0	18.6	17.8	18.6
11	10	20.0	29.0	24.2	24.3	18.2
12	8	30.0	37.0	33.7	32.3	19.5
13	8	39.0	47.0	42.5	42.1	19.3
14	3	48.0	60.0	54.3	53.6	19.8
16	2	75.0	78.0	76.5	83.1	18.7

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Toxotes chatareus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	2	2.0	2.0	2.0	1.9	16.0
6	1	4.0	4.0	4.0	3.3	18.5
7	1	3.0	3.0	3.0	5.4	8.7
8	3	8.0	10.0	9.0	8.3	17.6
9	1	11.0	11.0	11.0	11.9	15.1
10	2	16.0	20.0	18.0	16.6	18.0
12	3	25.0	35.0	30.0	29.0	17.4
14	1	52.0	52.0	52.0	52.7	18.9
15	2	62.0	70.0	66.0	68.8	19.6
16	2	77.0	85.0	81.0	88.3	19.8
17	3	105.0	140.0	120.0	111.6	24.4
18	2	130.0	150.0	140.0	139.1	24.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Trichogaster microlepis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	2	3.0	3.0	3.0	2.3	13.9
7	10	2.0	7.0	3.5	3.7	10.2
8	10	3.0	9.0	6.0	5.6	11.7
9	15	6.0	13.0	8.9	8.0	12.2
10	14	8.0	14.0	10.7	11.2	10.7
11	15	10.0	20.0	14.7	15.1	11.0
12	8	18.0	26.0	21.9	19.8	12.7
13	10	21.0	30.0	25.6	25.5	11.6
14	2	32.0	34.0	33.0	32.1	12.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Trichogaster pectoralis*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	1	3.0	3.0	3.0	2.9	13.9
9	2	8.0	11.0	9.5	10.6	13.0
10	8	13.0	17.0	14.9	14.8	14.9
11	14	17.0	25.0	20.4	20.0	15.3
12	21	20.0	38.0	26.7	26.4	15.5
13	52	28.0	58.0	34.8	34.1	15.8
14	70	35.0	55.0	42.1	43.1	15.4
15	71	45.0	70.0	55.7	53.7	16.5
16	65	55.0	82.0	65.7	66.0	16.0
17	28	63.0	98.0	80.5	80.0	16.4
18	11	63.0	110.0	92.7	95.9	15.9
19	1	105.0	105.0	105.0	113.9	15.3
20	4	120.0	167.0	141.5	134.1	17.7
22	2	170.0	190.0	180.0	181.7	16.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Trichogaster trichopterus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
6	295	1.0	9.0	3.4	3.3	15.6
7	450	2.0	10.0	5.3	5.2	15.6
8	431	4.0	15.0	7.9	7.8	15.5
9	486	5.0	19.0	11.6	11.0	15.9
10	369	8.0	22.0	15.2	15.1	15.2
11	83	12.0	25.0	18.5	20.0	13.9
12	12	19.0	26.0	23.2	26.0	13.4

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Trichopsis vittatus*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
5	6	1.0	2.0	1.3	1.2	10.7
6	6	1.0	2.0	1.7	1.6	7.7
7	11	2.0	2.0	2.0	2.0	5.8
8	2	2.0	3.0	2.5	2.4	4.9

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Wallago dinema*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
29	1	125.0	125.0	125.0	117.9	5.1
30	3	140.0	145.0	141.7	130.5	5.2
31	1	145.0	145.0	145.0	144.0	4.9
32	4	150.0	185.0	158.7	158.3	4.8
33	5	155.0	175.0	163.0	173.6	4.5
34	2	200.0	200.0	200.0	189.9	5.1
35	2	160.0	160.0	160.0	207.1	3.7
36	1	210.0	210.0	210.0	225.3	4.5
37	3	250.0	300.0	280.0	244.6	5.5
39	2	270.0	316.0	293.0	286.4	4.9
40	1	330.0	330.0	330.0	309.0	5.2
41	1	305.0	305.0	305.0	311.3	4.4
42	4	310.0	355.0	332.5	336.8	4.5
43	5	320.0	442.0	390.4	363.9	4.9
44	6	345.0	443.0	387.2	392.3	4.5
45	5	350.0	520.0	422.0	422.3	4.6
46	1	480.0	480.0	480.0	453.9	4.9
47	4	450.0	555.0	491.2	487.0	4.7
48	4	475.0	580.0	515.0	521.8	4.7
49	2	520.0	560.0	540.0	558.3	4.6
50	3	550.0	585.0	571.7	596.5	4.6
51	6	550.0	685.0	613.3	636.5	4.6
52	1	725.0	725.0	725.0	678.4	5.2
53	3	700.0	930.0	790.0	722.1	5.3
56	2	860.0	900.0	880.0	864.9	5.0

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Wallagonia attu*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
28	1	45.0	45.0	45.0	66.0	2.0
29	1	70.0	70.0	70.0	75.1	2.9
30	1	110.0	110.0	110.0	85.2	4.1
31	1	105.0	105.0	105.0	96.2	3.5
33	1	125.0	125.0	125.0	121.2	3.5
34	1	145.0	145.0	145.0	135.4	3.7
38	1	230.0	230.0	230.0	204.4	4.2
39	1	250.0	250.0	250.0	225.1	4.2
47	1	420.0	420.0	420.0	449.3	4.0
48	1	420.0	420.0	420.0	485.7	3.8
51	1	675.0	675.0	675.0	585.0	5.1
52	1	635.0	635.0	635.0	621.6	4.5
53	1	600.0	600.0	600.0	659.7	4.0
54	1	620.0	620.0	620.0	699.4	3.9
66	1	1340.0	1340.0	1340.0	1308.5	4.7
83	1	2900.0	2900.0	2900.0	2676.0	5.1
99	1	4400.0	4400.0	4400.0	4639.5	4.5

LENGTH-WEIGHT RELATIONSHIPS IN CENTIMETERS AND GRAMS OF *Xenentodon cancila*

Length	Number of fish	Range in weight		Average empirical weight	Calculated weights standard	Condition index
		Minimum	Maximum			
9	12	1.0	2.0	1.2	1.1	1.6
10	11	1.0	2.0	1.6	1.6	1.6
11	18	1.0	4.0	1.9	2.2	1.5
12	26	2.0	5.0	3.4	2.9	2.0
13	37	2.0	6.0	4.0	3.8	1.8
14	49	2.0	7.0	5.3	4.8	1.9
15	64	4.0	10.0	5.9	6.0	1.7
16	61	4.0	17.0	7.6	7.4	1.9
17	56	5.0	18.0	9.6	9.1	2.0
18	52	6.0	17.0	10.5	10.9	1.8
19	46	10.0	21.0	13.3	13.1	1.9
20	61	12.0	22.0	16.6	16.4	2.1
21	60	14.0	30.0	19.2	19.1	2.1
22	46	14.0	30.0	22.3	22.1	2.1
23	46	18.0	33.0	25.5	25.1	2.1
24	57	23.0	40.0	30.4	29.0	2.2
25	28	25.0	44.0	32.6	32.9	2.1
26	26	30.0	44.0	36.1	37.2	2.1
27	21	30.0	47.0	40.5	41.9	2.1
28	6	39.0	59.0	49.7	46.9	2.3
29	4	49.0	56.0	52.5	52.4	2.1
30	3	64.0	71.0	66.7	58.3	2.5
31	1	70.0	70.0	70.0	64.6	2.3

APPENDIX

ESTIMATED PARAMETERS OF LENGTH-WEIGHT EQUATIONS

Scientific name	Common name	Length interval	Log (a)	b
Acanthopsis choirorhynchos	Pla Sai	7-12	−2.493	3.036
		13-18	−4.791	5.060
Albulichthys albuloides	-------	6-14	−1.977	2.950
Amblyrhynchichthys truncatus	Pla Ta Lurk	5-14	−2.399	3.310
		15-21	−2.091	3.071
Anabas testudineus	Pla Mor Thai	5-15	−1.700	3.015
Barbichthys laevis	Pla Hua Liem	9-14	−1.513	2.495
		15-31	−1.414	2.532
Barilius guttatus	Pla Nang Ao	3-12	−1.178	2.015
B. nanensis	Pla Nang Ao	6-16	−1.690	2.512
Botia hymenophysa	Pla Mu Kang Lai	4-8	−1.393	2.353
		9-13	−2.090	3.264
B. modesta	Pla Mu Kao	5-22	−2.309	3.275
Chanda baculis	Pla Kamao	5-7	−0.548	1.371
C. siamensis	Pla Kamao	4-7	−1.103	1.973
C. wolffii	Pla Pan	4-10	−1.688	2.801
		11-18	−1.980	3.121
Chelonodon sp.	Pla Puk Pow	4-14	−2.309	3.706
Cirrhinus sp.	Pla Soi	8-22	−1.983	3.043
C. jullieni	Pla Soi Kao	6-20	−2.501	3.3448
Clarias batrachus	Pla Duk Dan	7-19	−2.446	3.258
		20-34	−1.686	2.697
Clupeoides hypselosoma	Pla Ka Tug	5-10	−1.217	2.043
Coila macrognathus	Pla Hang Kao	6-12	−2.294	3.054
Corica goniognathus	Pla Sai Tan	5-12	−1.900	2.908
		13-19	−1.303	2.441
Cultrops siamensis	Pla Tong Plu	6-9	−0.843	1.642
Cyclocheilichthys sp.	Pla Nam Lang	7-11	−2.222	3.113
C. apogon	Pla Nam Lang	3-13	−2.042	3.054
		14-49	−3.042	3.931
C. armatus	Pla Pak Liem	5-9	−2.571	3.741
C. dumerilii	Pla Nam Lang	8-15	−1.993	2.915
C. enoplos	Pla Takok	4-26	−2.060	2.993
		27-50	−2.353	3.194
C. repasson	Pla Nam Lang	4-13	−1.926	2.921
		14-18	−2.464	3.441
Datnioides microlepis	Pla Seua Taw	6-55	−1.829	3.171
Fluta alba	Pla Lai	11-42	−2.983	2.919
Garra taeniata	Pla Lai Hin	13-24	−1.652	2.724
Hampala dispar	Pla Kasoop	4-12	−1.618	2.695
		13-21	−1.795	2.912
H. macrolepidota	Pla Kasoop	3-20	−1.836	2.898
		21-35	−2.196	3.188
		36-57	−2.236	3.203
Kryptopterus cryptopterus	Pla Neua On	8-19	−2.167	2.890
		20-24	−2.855	3.313
K. bleekeri	-------	8-27	−1.663	2.475
		28-53	−3.161	3.513
Labeo bicolor	Pla Song Kruang	5-13	−2.396	3.424
L. erythrurus	-------	6-12	−1.942	2.844
Labeobarbus sp.	-------	12-18	−2.411	3.305
L. lineatus	Pla Sa	9-19	−2.856	3.759
L. siamensis	-------	6-22	−2.489	3.382
L. spilopleura	Pla Sa	6-18	−2.041	2.996
Laides hexanema	Pla Sankaward	6-12	−1.997	2.912
Leiocassis siamensis	Pla Kayeng Hin	5-10	−2.024	2.986
		11-18	−1.956	2.916
Luciosoma bleekeri	Pla Ai Ao	4-9	−1.264	2.025
		10-17	−1.814	2.672
Lycothrissa crocodilus	Pla Meo	9-17	−1.914	2.625
		18-25	−3.453	3.881
Macrognathus aculeatus	Pla Lot	6-17	−2.894	3.358
		18-28	−2.539	3.082
M. armatus	Pla Log	12-24	−2.949	3.333
Mastocembelus armatus armatus	Pla Kathing	5-28	−1.761	2.430
		29-39	−1.835	2.529
M. circumcinctus	Pla Lot Lai	8-25	−2.933	3.408
M. taeniagaster	Pla Kathing	7-16	−2.608	3.045
		17-22	−4.079	3.237
Microphis boaja	Pla Jim Fun Jorakae	11-28	−1.967	2.041
		29-32	−3.138	2.926
Morulius chrysophekadion	Pla Ka	4-17	−1.929	2.954
		18-72	−1.883	2.941
Mystacoleucus sp.	-------	4-11	−1.593	2.571
M. chilopterus	-------	5-11	−1.737	2.781
Mystus sp.	Pla Kot	5-12	−2.080	2.922
		13-27	−2.268	3.144
M. atrifasciatus	Pla Kayeng Kang Lai	6-14	−2.596	3.501
M. cavasius	Pla Kayeng Bai Khao	6-16	−2.147	2.970
		17-22	−2.575	3.308
M. gulio	Pla Mang Kong	11-18	−1.608	2.486
M. micracanthus	Pla Kot	11-19	−2.709	3.393
		20-30	−2.583	3.242
M. nemurus	Pla Kot Mor	5-25	−2.020	2.894
		26-50	−2.297	3.128
M. vittatus	Pla Kayeng Kang Lai	6-20	−2.018	2.918
M. wyckii	Pla Kot Kao	5-20	−1.887	2.758
		21-67	−2.357	3.143
Nandus nandus	Pla Suar	4-10	−1.702	2.907
Nandus nebulosus	-------	4-10	−1.851	3.114
Notopterus chitala	Pla Krai	6-17	−2.830	3.491
		18-33	−2.683	3.350
		34-48	−2.503	3.195
N. notopterus	Pla Chalat	4-18	−1.710	2.600
		19-34	−2.702	3.405
Ompok bimaculatus	Pla Cha Oan	5-15	−2.332	3.136
		16-25	−1.081	2.110
Ophicephalus gachua	Pla Kang	5-17	−2.012	3.004
O. lucius	Pla Kasong	5-23	−2.126	3.066
		24-53	−2.126	3.092
O. micropeltes	Pla Chado	3-19	−1.732	2.726
		20-37	−2.022	2.983
		38-70	−2.414	3.226
O. striatus	Pla Chon	3-14	−2.167	3.108
		15-30	−1.972	2.933
		31-62	−1.197	3.079
Osphronemus goramy	Pla Raet	5-25	−1.779	3.025
Osteochilus duostigma	Pla Soi Nok Khao	9-19	−2.298	3.305
O. hasseltii	Pla Sa	5-14	−2.068	3.158
		15-27	−2.001	3.104
O. lini	-------	9-15	−1.846	2.782
O. melanopleura	Pla Prom	5-17	−2.313	3.319
		18-32	−1.988	3.055
O. spilopleura	Pla Pik Deng	7-18	−2.108	3.064
		19-22	−1.521	2.404
O. vittatus	Pla Kang Lai	5-15	−2.215	3.218
Oxyeleotris sp.	Pla Bu	3-12	−1.625	2.622
		13-23	−2.727	3.661
O. marmoratus	Pla Bu Sai	5-16	−2.184	3.258
		17-31	−2.284	3.322
Oxygaster oxygastroides	Pla Paep Khao	5-15	−2.037	2.931
O. siamensis	Pla Paep	5-13	−2.430	3.292
		14-19	−1.964	2.910
Pangasius siamensis	Pla Sangkawad	16-22	−1.505	2.461
P. sutchi	Pla Sawai	16-55	−3.114	3.623
		56-90	−3.073	3.577
Paralaubuca sp.	Pla Paep	7-13	−1.759	2.594
Polynemus paradiseus	Pla Naud Pram	12-20	−2.279	2.996
Pristolepis fasciatus	Pla Mor Chang Yieb	4-12	−1.808	3.161
		13-18	−1.717	3.082
		19-31	−1.734	3.097
Probarbus jullieni	Pla Yee Sok	6-12	−2.075	3.060
Puntius altus	Pla Tapien Tong	4-11	−1.806	2.979
		12-18	−2.283	3.433
P. daruphani	Pla Tapak	6-12	−1.679	2.775
		13-17	−2.556	3.561
P. gonionotus	Pla Tapien Khoa	5-20	−1.884	3.002
		21-43	−1.726	2.909
P. leiacanthus	Pla Tapien Sai	4-14	−1.929	3.032
P. orphoides	Pla Kam Cham	4-21	−1.766	2.924

P. partipentazona	Pla Kang Lai	4-6	−1.624	2.635
P. sametensis	------	6-9	−1.645	2.68
P. schwanenfeldii	Pla Kahae Tong	4-16	−2.036	3.132
Puntioplites proctozysron	--------	5-25	−2.135	3.209
		26-44	−0.544	2.060
Rasbora sp.	Pla Siew	6-10	−3.085	4.118
R. argyrotaenia	Pla Siew	4-14	−2.082	3.032
R. borapetensis	Pla Siew Hangdeng	3-10	−0.436	1.094
R. retrodorsalis	Pla Siew Kwai	5-11	−2.457	3.224
R. trilineata	Pla Siew Hang Kantri	4-7	−0.883	1.500
Setipinna melanochir	Pla Meo	11-24	−2.485	3.200
S. taty	Pla Meo	10-16	−1.581	2.360
Synaptura aenea	Pla Lin Ma	4-12	−1.424	2.519
		13-21	−1.773	2.924
Tetraodon sp.	Pla Puk Pow	5-12	−1.681	3.165
T. leiurus	Pla Puk Pow	4-14	−1.392	2.812
Tilapia nilotica	Pla Nin	8-16	−2.027	3.278
Toxotes chatareus	Pla Seua	5-11	−1.914	3.134
Trichogaster microlepis	Pla Kadi Nang	6-14	−2.086	3.135
T. pectoralis	Pla Salid	6-22	−2.012	3.182
T. trichopterus	Pla Kadi Mor	6-12	−1.798	2.977
Trichopsis vittatus	Pla Krim	5-8	−0.882	1.399
Wallago dinema	Pla Kang Buan	29-40	−2.309	2.995
		41-56	−2.493	3.278
Wallagonia attu	Pla Khao	28-49	−3.541	3.704
		50-99	−2.563	3.122
Xenentodon cancila	Pla Katung Heo	7-19	−3.073	3.276
		20-31	−2.862	3.133