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The University of Rhode Island—International Center for Marine Resource Development
The University of Washington—Center for Quantitative Sciences
The University of Costa Rica—Centro de Investigación en Ciencias del Mar y Limnología
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WORKING PAPER SERIES

Working Paper 77

A COMPILATION OF DATA ON VARIABILITY IN LENGTH-AGE IN MARINE FISHES

by

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The Fisheries Stock Assessment CRSP (sponsored in part by USAID Grant No. DAN-4146-G-SS-5071-00) is intended to support collaborative research between U.S. and developing countries' universities and institutions on fisheries stock assessment and management strategies.

This Working Paper has been produced by The University of Rhode Island research component in collaboration with the University of the Philippines and in association with the International Center for Living Aquatic Resources Management. Additional copies are also available from:

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Introduction

Variability in length-at-age is important in many areas of population dynamics and fisheries. These include size-based demographic modelling, length frequency analysis, sampling, simulation, fitting of growth curves, and estimation of age frequencies from length frequencies. In general, the relationship between variability in length-at-age and age is poorly understood. As a contribution to the study of this problem, data for 168 marine species in 50 families (468 records) covering a wide range of life history characteristics were compiled and summarized.

Data collection and selection

An extensive literature search was carried out in order to find data on variability in length-at-age of marine fish. The data consisted of published and unpublished age-length keys (ALKs) or actual estimated mean lengths-at-age and associated measures of dispersion (standard deviations (SD), variances (V), coefficients of variation (CV), standard errors (SE) or confidence intervals (CI)).

Data sets which did not meet one or more of a number of criteria were not used in this study. Age and growth studies involving length frequency analysis (LFA) were not used because of unreliable estimates of mean lengths and their variability. Observed mean lengths-at-age were used rather than back-calculated lengths-at-age which tend to have greater variability.

Minimum acceptable sample sizes were investigated by assuming that mean length-at-age was normally distributed and simulating runs of different sample sizes (n = 5, 10, 20, 30, 50, 100) of lengths with means and SD's typical of those observed in the compiled data sets (SD = 1.5, 3.0, 4.5). Variograms of the means of the calculated variances plotted against sample size were created and used to select a minimum sample size. Over the range of parameter values utilized, it appeared that n=10 was a reasonable compromise.

ALK's with large interval sizes (greater than 2.0 cm) were discarded because preliminary simulations similar to those used to investigate the deviation of the estimated variance from the true variance due to sample size showed that error in the estimated means and variances increased substantially with the grouping interval size. However, the most widely used interval size was 1 cm and therefore only some ALK's were rejected on this basis.

Data sets which were composites of samples taken at different times and/or places were also avoided. In a number of cases, age and growth studies could not be used because SE's or CI's were reported without sample sizes so that other statistics could not be calculated. In general, if there was any doubt about the reported measures of dispersion, the data were rejected.

Data classification

For comparative purposes, the data sets (468 records) were classified by family (50) and species (168) (Table A). For each record, additional parameters and information were compiled. These include: 1) sex (male,

female, or combined), 2) whether or not an ALK was available, 3) the von Bertalanffy growth parameters K and L_∞, 4) the Gallucci and Quinn (1979) growth parameter ω, 5) the growth performance index ϕ' (Longhurst and Pauly 1987), 6) the maximum observed age in the sample, 7) the number of years it takes to attain 95% of the asymptotic maximum size, 8) the geographic location, 9) the marine environment (tropical, warm temperate, cool temperate, boreal), 10) spawning pattern, and 11) spawning duration.

The von Bertalanffy growth parameters were taken from the original reference whenever possible. Otherwise, they were estimated from the length-at-age data. ω was calculated by multiplying K by L_∞ (Gallucci and Quinn 1979). ϕ' is equal to $\log_{10}K + 2\log_{10}L_\infty$ (Longhurst and Pauly 1987). Maximum observed age was used as a proxy of longevity, which is largely determined by mortality rates. However, maximum observed age is highly dependent on sample size and on the type of sample (Beverton 1963). Therefore the number of years it takes to attain 95% of L_∞ ($t_{95\%}$) was also used as a measure of longevity. Estimates of mortality rates could only be obtained for a fraction of the records so these were not compiled and used in this study.

The geographic location and the environment inhabited by the species were also recorded. Following Bond (1979), records were classified as tropical, warm temperate, cool temperate or boreal, based on the geographical location in relation to the 20°, 13°, and 0° C isotherms during winter (Figure 1). Some species, especially large migratory pelagics are not exclusive to a single zone and may be classified in more than one.

Data on spawning pattern and duration were also collected for each species. Five types of spawning patterns were recognized: 1) a distinct spawning period with one peak per year, 2) a distinct spawning period with

two spawning peaks. 3) continuous spawning throughout the year 4) continuous spawning throughout the year but with a clearly defined period during which most of the reproductive activity took place, and 5) continuous spawning throughout the year but with two clearly defined periods during which most of the reproductive activity took place. Spawning period duration was recorded in months.

Descriptive statistics

The numbers in each age group and the mean lengths-at-age and their corresponding SD's, V's and CV's were tabulated (Table B). For comparative purposes, the relative lengths ($l(i)/L_{\infty}$) were also calculated (Buesa 1987).

A variation of the Hartley test can be used to test the null hypothesis of homogeneity of variance (Winer 1971). However, it is more appropriate to test for homogeneity of a measure of relative variability such as the CV because of the differences in magnitude of the means due to growth. Lewontin (1966) and Lande (1977) showed that when CV's are not large (less than 30%), the F test can be used in the same manner to test for the homogeneity of CV^2.

Test of normality, skewness and kurtosis

The χ^2 test of goodness of fit was used to test the assumption of normality using a probability of 0.05 as a criterion. The frequencies at the tail ends of the distributions were grouped into terminal classes of 5 or more in order to avoid the effect on χ^2 of small absolute differences between observed and obtained frequencies.

Skewness (g_1) and kurtosis (g_2) were calculated for each length-at-age distribution (Sokal and Rohlf 1981). Following Sokal and Rohlf (1981), the standard errors can be estimated and a t test can be used to test the null hypothesis of $g_1, g_2 = 0$ at a specified probability level.

Overlap indices

The amount of overlapping of age classes within each record or sample was examined using two indices. The first index was based on the work of Behboodian (1970) who found that for a mixture of two normal distributions, there is essentially one mode whenever the difference between the means is less than two times the smaller of the SDs. Following McNew and Summerfelt (1978), the sum of the two SDs was used rather than twice the minimum of the smaller SD for the first index, with a value of less than 1.0 indicating a high degree of overlap.

The first index does not take into account the sample size of each component distribution. Therefore, another index was created by assuming that the distributions were normal and generating normal curves using the estimated means and SDs and scaling them by the corresponding sample size. The point of overlap of two adjacent curves was then found by an iterative procedure minimizing the vertical distance between the two curves (Figure 2). The index was then calculated by dividing the distance between the smaller mean and the length at which the curves overlapped by the SD of the mean. An index value of 0 was given to distributions which were completely overlapped by the adjacent distribution or which had an estimated mean length which was smaller than that of the older age class. All sample sizes were used in the calculation of the overlap indices.

Figure 1.

Distribution of the species used in this study in relation to four environmental regimes. The tropical zone is delimited by the 20°C winter isotherms, the cool temperate zone by the 20° and 13°C isotherms, the warm temperate by the 13° and 0°C isotherms, and the boreal by the 0°C. The total number is greater than 168 because some species are represented by samples from more than one area. The position of the isotherms was taken from Bond (1979).

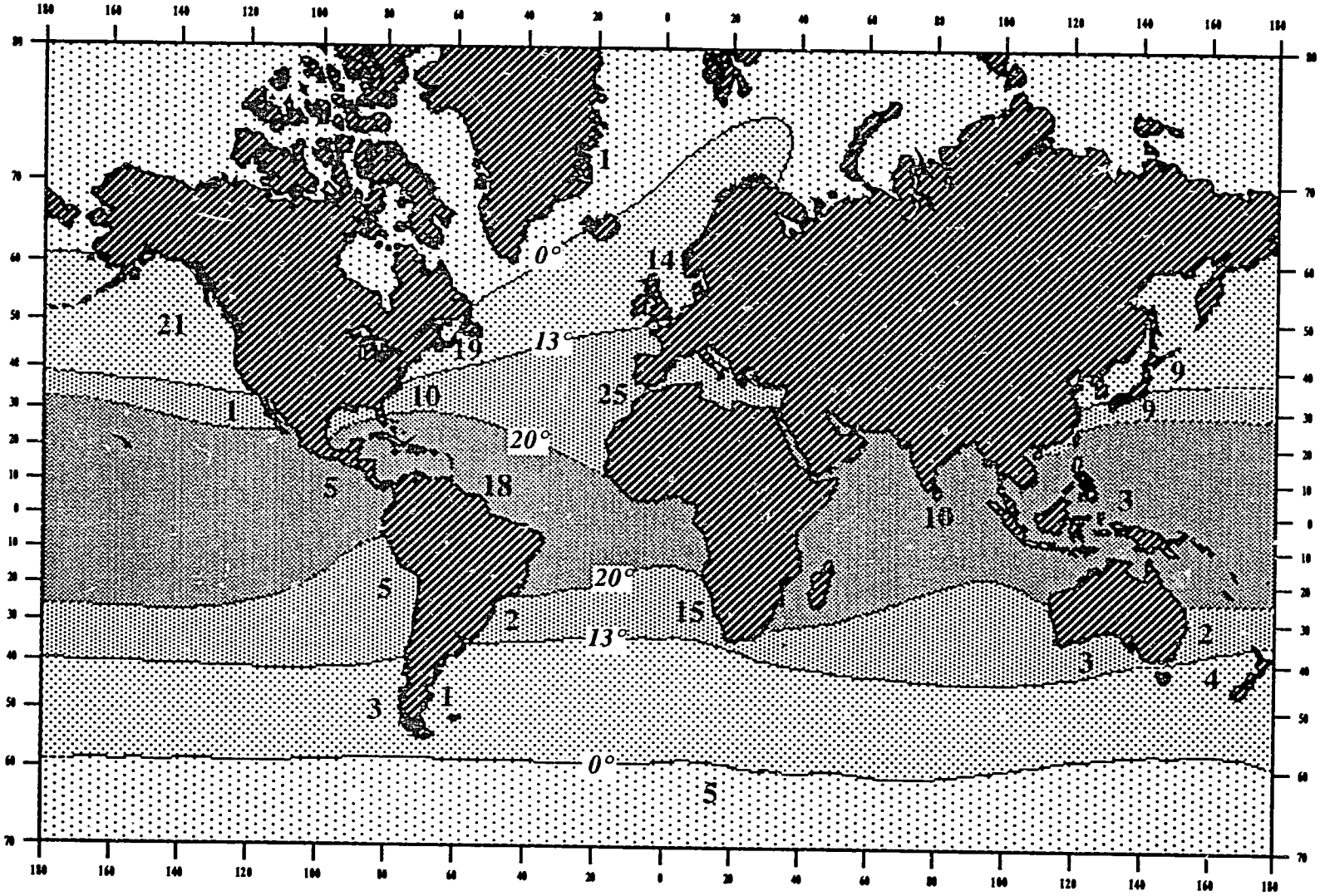
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Figure 2.

Illustration of the method of calculation of overlap index 2. The index is equal to the distance between the mean of a distribution and the point of intersection with an adjacent distribution divided by the standard deviation. For the three normal distributions in the figure, the two distances are x_1 and x_2. Normal distributions were generated using the calculated means and standard deviations and an iterative procedure was used to locate the point of intersection or overlap of adjacent distributions.

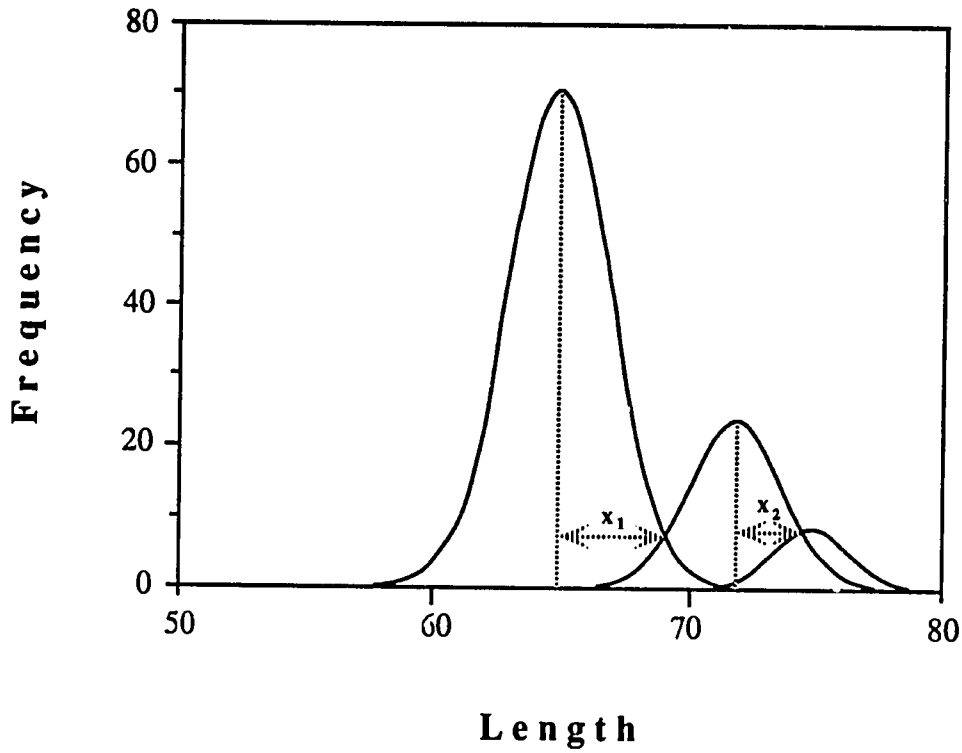

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Table A

Data sets used in this study with species grouped by family. For each data set or record, the following parameters and information were recorded:

1) Record number (for identification of data set), family, species and location: geographic area where sample for age and growth study was taken.
2) References for age and growth, and reproduction.
3) Sex: M = male, F = female, and C = sexes combined.
4) Type of data: N = no age-length key (ALK) available, Y = ALK available.
5) von Bertalanffy growth parameters K and L_∞.
6) Maximum age: the oldest age class in the sample.
7) Longevity: $t_{95\%}$, the age at which 0.95 of L_∞ is attained.
8) Gallucci and Quinn (1979) growth parameter: ω.
9) The growth performance index: ϕ' (Longhurst and Pauly 1987).
10) Environmental regime: TR = tropical (20° - 20°C winter isotherm), WT = warm temperate (20° C - 13°C), CT = cool temperate (13° - 0°C), and PO = boreal (<0°C).
11) Spawning pattern: 1 = one peak per year, 2 = two peaks per year, 3 = continuous throughout the year, 4 = continuous but with a clearly defined peak, and 5 = continuous but with two peaks.
12) Spawning duration: length of spawning season in months.

Note: Gaps in the table for location and references do not indicate missing data. Location and references are given only for the first record in a series for the same age and growth reference. Actual missing data or information is indicated by a question mark. If the age and growth reference was also the spawning reference, the corresponding entry in the column of spawning references is left empty. If no data for spawning was available, this is indicated by a '?'.

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L_∞	Max. age	t 95%	ω	φ'	Env.	Spawning pattern	Spawning duration (months)
1	1 Albulidae	*Albula vulpes*	S Florida	Bruger 1974	Erdman 1976	C	N	0.23	66.4	10	13	15.3	3.006	TR	3	12
2	2 Ammodytidae	*Ammodytes dubius*	Grand Bank	Winters 1981	Smith et al. 1979	C	N	0.34	26.2	8	9	8.9	2.368	CT	1	5
3	3 Anarhichadidae	*Anarhicas minor*	Norway	Ostvedt 1963	Templeman 1986	C	Y	0.13	138.4	20	23	18.0	3.396	CT	1	2
4	4 Anoplomidae	*Anoplopoma fimbria*	NE Pacific	Kennedy and Pletcher 1968	Mason et al. 1983	C	Y	0.13	105.0	12	23	13.7	3.156	CT	1	4
5		*Anoplopoma fimbria*				C	Y	0.19	94.0	12	16	17.5	3.216	CT	1	4
6		*Anoplopoma fimbria*				C	Y	0.19	90.0	12	16	16.7	3.178	CT	1	4
7	5 Argentinidae	*Glossanodon semifasciatus*	Japan Sea	Ogata and Ito 1979		C	Y	0.27	25.5	7	11	6.9	2.244	WT	2	6
8		*Glossanodon semifasciatus*				C	Y	0.39	23.7	7	8	9.2	2.341	WT	2	6
9	6 Ariidae	*Tachysurus tenuispinis*	India	Dan 1980	Dan 1977	M	Y	0.17	62.9	6	18	10.7	2.828	TR	1	5
10		*Tachysurus tenuispinis*				F	Y	0.19	57.8	7	16	11.0	2.803	TR	1	5
11	7 Atherinidae	*Odonthestes regia*	Peru	Villavicencio and Muck 1984		C	N	0.69	25.0	3	4	17.3	2.635	TR	5	12
12	8 Balistidae	*Balistes capriscus*	NE Gulf of Mexico	Johnson and Saloman 1984	Erdman 1976	M	N	0.38	49.2	13	8	18.8	2.966	WT	3	10
13		*Balistes capriscus*				F	N	0.38	43.8	13	8	16.8	2.866	WT	3	10
14		*Balistes vetula*	Brazil	Ferreira de Menezes 1985	Ferreira de Menezes 1979	C	N	0.15	53.8	13	20	8.2	2.643	TR	1	2
15	9 Bothidae	*Arnoglossus laterna*	W Scotland	Gibson and Ezzi 1980		C	N	0.46	94.9	9	7	43.7	3.617	CT	1	3
16		*Arnoglossus laterna*				C	N	0.63	52.7	9	5	57.1	3.715	CT	1	3
17		*Citharichthys sordidus*	California	Arora 1951		C	N	0.32	29.7	9	9	9.5	2.451	CT	1	3
18	10 Carangidae	*Caranx crysos*	N Gulf of Mexico	Goodwin and Johnson 1986	Thresher 1984	F	N	0.38	40.4	11	8	15.4	2.793	WT	1	12
19		*Caranx crysos*				M	N	0.32	42.0	11	9	13.4	2.752	WT	1	12
20		*Caranx georgianus*	New Zealand	James 1984	James 1978	C	N	0.18	46.2	42	17	8.3	2.585	CT	1	3
21		*Caranx lugubris*	N Brazil	Menezes de Lima 1968	Thresher 1984	C	N	0.12	82.2	6	26	9.5	2.890	TR	3	12
22		*Seriola dorsalis*	California	Baxter 1960		C	N	0.14	129.1	13	21	18.1	3.368	CT	1	5
23		*Trachurus capensis*	SE Africa	Draganik 1977	Wengrzyn 1976	C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
24		*Trachurus declivis*	Great Australian Bight	Stevens et al. 1984	Stevens et al. 1984	C	N	0.20	46.4	10	15	9.3	2.634	WT	1	3
25		*Trachurus declivis*				C	N	0.19	41.7	10	16	7.9	2.519	WT	1	3
26		*Trachurus declivis*	SE Australia	Stevens and Hausfeld 1982	Stevens et al. 1984	C	N	0.20	46.4	17	15	9.2	2.634	WT	1	3
27		*Trachurus declivis*				C	N	0.16	49.3	16	19	7.9	2.590	WT	1	3
28		*Trachurus trachurus*	SE Africa	Draganik 1977	Wengrzyn 1976	C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
29		*Trachurus trachurus*				C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
30		*Trachurus trachurus*				C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
31		*Trachurus trachurus*				C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
32		*Trachurus trachurus*				C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
33		*Trachurus trachurus*				C	Y	0.13	50.0	17	23	6.5	2.512	WT	1	5
34		*Trachurus trachurus*	Atlantic (Portugal)	Borges 1978	Whitehead et al. 1984	C	Y	0.16	52.0	10	19	8.3	2.536	WT	1	5
35		*Trachurus trachurus*	W of Britain and Ireland	Kerstan 1985		C	Y	0.22	41.6	11	13	9.3	2.586	CT	1	10
36		*Trachurus trachurus*				C	Y	0.22	41.6	11	13	9.3	2.586	CT	1	10
37		*Trachurus trachurus*	SE Atlantic	Sosa 1981	Wengrzyn 1976	M	Y	0.14	51.4	16	21	7.2	2.568	WT	1	5
38		*Trachurus trachurus*				F	Y	0.14	49.9	16	21	7.0	2.542	WT	1	5
39		*Trachurus trachurus*														

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Record	Family	Species	Location	Reference for age and growth	Spawning references	Sex	ALK	K	L_∞	Max. age	t 95%	a	φ'	Env.	Spawning pattern	Spawning duration (months)
40		*Trachurus trachurus*	SE Atlantic	Wengrzyn 1976		C	Y	0.11	55.0	18	27	6.1	2.522	WT	1	5
41		*Trachurus trachurus*				C	Y	0.11	55.0	18	27	6.1	2.522	WT	1	5
42		*Trachurus trachurus*				C	Y	0.11	55.0	16	27	6.1	2.522	WT	1	5
43		*Trachurus trachurus*	SE Atlantic	Kompowski and Slósarczyk 1976	Wengrzyn 1976	C	Y	0.25	47.0	10	12	11.8	2.742	WT	1	5
44		*Trachurus trachurus*				C	Y	0.25	47.0	10	12	11.8	2.742	WT	1	5
45	11 Carcharhinidae	*Carcharhinus plumbeus*	Western North Atlantic	Casey et al. 1985	Cliff et al. 1988	M	N	0.08	204.0	15	39	15.5	3.500	WT	1	4
46		*Carcharhinus plumbeus*				F	N	0.06	250.0	21	53	14.3	3.552	WT	1	4
47	12 Centropomidae	*Centropomus undecimalis*	SW Florida	Volpe 1959	Ault and Fox 1988	C	Y	0.48	77.7	9	6	37.5	3.465	TR	1	9
48	13 Channichthyidae	*Champsocephalus gunnari*	Elefant Island (Ant.)	Torno and Oro 1985		M	N	0.39	49.8	7	8	19.4	2.985	BO	1	2
49		*Champsocephalus gunnari*				F	N	0.19	62.7	7	16	11.9	2.873	BO	1	2
50	14 Cheilodactylidae	*Cheilodactylus macropterus*	New Zealand	Tong and Vooren 1972		C	N	0.26	39.9	14	12	10.4	2.617	CT	1	5
51	15 Clupeidae	*Clupea bentincki*	Chile	Aguayo and Soto 1978	Arrizaga-Mirranda 1981	C	Y	0.52	16.9	3	6	8.8	2.172	WT	2	12
52		*Clupea harengus*	Gulf of St. Lawrence	Tibho et al. 1969	Smith et al. 1979	C	Y	0.33	33.5	10	9	11.1	2.569	CT	1	2
53		*Clupea harengus*				C	Y	0.37	33.9	10	8	12.5	2.629	CT	1	2
54		*Clupea harengus*				C	Y	0.30	35.0	10	10	10.5	2.565	CT	1	2
55		*Clupea harengus pallasi*	California	Spratt 1987	Rabin and Barnhart 1986	C	N	0.59	20.0	6	5	11.8	2.373	CT	1	4
56		*Clupea harengus pallasi*				C	N	0.53	20.5	6	6	10.9	2.348	CT	1	4
57		*Clupea harengus pallasi*				C	N	0.33	21.7	6	9	7.2	2.191	CT	1	4
58		*Clupea harengus pallasi*				C	N	0.31	22.6	6	10	7.0	2.200	CT	1	4
59		*Clupea harengus pallasi*				C	N	0.19	23.8	6	16	4.5	2.032	CT	1	4
60		*Clupea harengus pallasi*				C	N	0.51	20.5	6	6	10.5	2.331	CT	1	4
61		*Clupea harengus pallasi*				C	N	0.23	22.4	6	13	5.2	2.062	CT	1	4
62		*Clupea harengus pallasi*				C	N	0.51	20.1	6	6	10.3	2.314	CT	1	4
63		*Clupea harengus pallasi*				C	N	0.20	22.6	6	15	4.5	2.009	CT	1	4
64		*Sardina pilchardus*	NW Africa	Delgado et al. 1981	Whitehead et al. 1984	C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
65		*Sardina pilchardus*				C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
66		*Sardina pilchardus*				C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
67		*Sardina pilchardus*				C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
68		*Sardina pilchardus*				C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
69		*Sardina pilchardus*				C	Y	0.82	21.6	8	4	17.7	2.583	WT	1	9
70		*Sardina pilchardus*	Galicia (Spain)	Perez et al. 1985	Whitehead et al. 1984	F	Y	0.34	24.1	11	9	8.2	2.296	WT	1	6
71		*Sardina pilchardus*				M	Y	0.37	22.6	9	8	8.4	2.276	WT	1	6
72		*Sardina pilchardus*	Morocco	Belvèze and Rami 1978	Whitehead et al. 1984	C	Y	0.68	21.2	5	4	14.4	2.486	WT	1	8
73		*Sardina pilchardus*	Alicante (Spain)	Larrañeta 1975	Whitehead et al. 1984	C	Y	0.29	22.4	5	10	6.5	2.163	WT	1	8
74		*Sardina pilchardus*	Morocco	Rodríguez-Roda 1971	Whitehead et al. 1984	C	Y	0.23	25.2	4	13	5.7	2.155	WT	1	8
75		*Sardina pilchardus*	Portugal	Barraca and Pestana 1985	Whitehead et al. 1984	C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
76		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
77		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
78		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
79		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
80		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
81		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6
82		*Sardina pilchardus*				C	Y	0.67	22.4	5	4	15.0	2.527	WT	1	6

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L_∞	Max. age	t 95%	α	φ'	Env.	Spawning pattern	Spawning duration (months)
83		*Sardina pilchardus*	Galicia (Spain)	Porteiro and Alvarez 1985	Whitehead et al. 1984	C	Y	0.43	24.3	7	7	10.4	2.405	WT	1	6
84		*Sardina pilchardus*				C	Y	0.51	22.8	7	6	11.6	2.423	WT	1	6
85		*Sardina pilchardus*	W Med.	Lopez 1963	Whitehead et al. 1984	C	Y	0.26	20.3	7	12	5.3	2.030	WT	1	6
86		*Sardinella aurita*	SE Africa	Shcherbich 1981		C	Y	0.28	43.3	6	11	12.1	2.720	WT	2	6
87		*Sardinella aurita*	Med. (Egypt)	El-Maghraby et al. 1970	Whitehead et al. 1984	C	Y	0.53	26.0	4	6	13.8	2.554	WT	1	4
88		*Sardinella aurita*	Senegal	Itoely et al. 1982		C	N	1.21	30.6	6	2	36.9	3.054	TR	1	7
89		*Sardinella maderensis*	Med. (Egypt)	El-Maghraby et al. 1970	Whitehead et al. 1984	C	Y	0.90	15.3	5	3	13.7	2.323	WT	1	4
90		*Sardinops caerulea*	California	Phillips 1948	Wolf and Smith 1985	M	N	0.37	25.9	8	8	9.6	2.395	CT	1	3
91		*Sardinops caerulea*				F	N	0.44	26.2	8	7	11.5	2.480	CT	1	3
92		*Sardinops caerulea*				M	N	0.37	25.9	8	8	9.6	2.395	CT	1	3
93		*Sardinops caerulea*				F	N	0.44	26.2	8	7	11.5	2.480	CT	1	3
94		*Sardinops caerulea*				M	N	0.37	25.9	8	8	9.6	2.395	CT	1	3
95		*Sardinops caerulea*				F	N	0.44	26.2	8	7	11.5	2.480	CT	1	3
96		*Sardinops caerulea*				M	N	0.38	26.0	8	8	9.9	2.410	CT	1	3
97		*Sardinops caerulea*				F	N	0.34	26.7	8	9	9.1	2.385	CT	1	3
98		*Sardinops caerulea*				M	N	0.44	22.9	8	7	10.1	2.363	CT	1	3
99		*Sardinops caerulea*				F	N	0.45	23.5	8	7	10.6	2.395	CT	1	3
100		*Sardinops melanosticta*	Korea	Kim and Kim 1984	Funakoshi and Yanagibashi 1983	C	N	0.59	22.4	8	5	13.2	2.471	CT	1	3
101		*Sardinops neopilchardus*	SE Australia	Stevens et al. 1984	Stevens et al. 1984	C	N	0.61	16.3	7	5	9.9	2.210	WT	1	6
102		*Sardinops ocellata*	SE Africa	Wysokinski and Krakus 1977		M	Y	0.28	28.5	7	11	8.0	2.357	WT	1	2
103		*Sardinops ocellata*				F	Y	0.28	28.5	7	11	8.0	2.357	WT	1	2
104		*Sardinops ocellata*	SE Atlantic (South Africa)	Baird 1970	Wysokinski and Krakus 1977	C	Y	0.23	36.5	7	·	8.2	2.477	WT	1	2
105		*Sprattus fuegensis*	S Atl. (Falklands)	Gru and Cousseau 1982	Ciechomski and Sanchez 1983	C	Y	0.73	20.7	5	4	15.1	2.495	CT	1	3
106		*Sprattus sprattus*	North Sea	Johnson 1970	Whitehead et al. 1984	C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
107		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
108		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
109		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
110		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
111		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
112		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
113		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
114		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
115		*Sprattus sprattus*				C	N	0.53	13.2	5	6	7.0	1.965	CT	1	8
116	16 Cottidae	*Clinocottus analis*	California	Wells 1986		F	N	0.21	11.0	6	14	2.3	1.405	CT	1	3
117		*Clinocottus analis*				M	N	0.50	12.3	6	6	6.2	1.879	CT	1	3
118		*Scorpaenichthys marmoratus*	California	O'Connell 1953		F	N	0.09	76.0	14	33	6.8	2.715	CT	1	3
119		*Scorpaenichthys marmoratus*				M	N	0.17	60.4	11	18	10.3	2.793	CT	1	3
120	17 Dussumieriidae	*Etrumeus micropus*	SE Atlantic (South Africa)	Geldenhuys 1978		C	Y	0.33	26.2	6	9	8.7	2.359	WT	3	12
121	18 Embiodontidae	*Hyperprosopon anale*	California	Baltz and Knight 1983		C	N	0.60	12.8	3	5	7.7	1.993	CT	1	3
122	19 Engraulidae	*Engraulis anchoita*	S Brazil	Acuna and Castelló 1986		M	N	0.24	18.8	5	12	4.5	1.929	TR	1	12
123		*Engraulis anchoita*				M	N	0.24	18.8	5	12	4.5	1.929	TR	1	12
124		*Engraulis anchoita*				M	N	0.24	18.8	5	12	4.5	1.929	TR	1	12
125		*Engraulis anchoita*				F	N	0.20	19.8	5	15	4.0	1.894	TR	1	12
126		*Engraulis anchoita*				F	N	0.20	19.8	5	15	4.0	1.894	TR	1	12

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	σ	φ'	Env.	Spawning pattern	Spawning duration (months)
127		*Engraulis anchoita*				F	N	0.20	19.8	5	15	4.0	1.894	TR	1	12
128		*Engraulis australis*	Australia	Blackburn 1967		C	Y	0.39	12.1	6	8	4.7	1.757	WT	1	7
129		*Engraulis capensis*	SE Africa	Le Clus and Melo 1981	Le Clus 1983	C	Y	1.10	12.2	3	3	13.4	2.214	WT	1	6
130		*Engraulis capensis*	SE Africa	Melo 1985		C	Y	0.26	15.4	3	12	4.0	1.790	WT	1	6
131		*Engraulis encrasicholus*	NW Med. (Spain)	Pertierra 1987	Whitehead et al. 1984	C	N	0.51	17.6	5	6	9.0	2.199	WT	1	7
132		*Engraulis encrasicholus*	Bay of Biscay (Spain)	Astudillo 1986	Whitehead et al. 1984	M	Y	0.32	24.6	3	9	7.9	2.287	WT	1	7
133		*Engraulis encrasicholus*				F	Y	0.32	24.6	4	9	7.9	2.287	WT	1	7
134		*Engraulis mordax*	California	Spratt 1975		C	Y	0.30	16.6	6	10	5.0	1.917	CT	3	12
135		*Engraulis mordax*	California	Messersmith 1969		C	Y	0.34	14.7	6	9	5.0	1.866	CT	3	12
136		*Engraulis mordax*				C	Y	0.33	15.1	6	9	5.0	1.876	CT	3	12
137		*Engraulis mordax*				C	Y	0.25	15.7	6	12	3.9	1.790	CT	3	12
138		*Engraulis mordax*				C	Y	0.30	16.0	6	10	4.8	1.885	CT	3	12
139		*Engraulis mordax*				C	Y	0.50	15.0	6	6	7.5	2.051	CT	3	12
140		*Engraulis mordax*				C	Y	0.23	16.4	6	13	3.8	1.791	CT	3	12
141		*Engraulis mordax*				C	Y	0.30	17.0	6	10	5.1	1.938	CT	3	12
142		*Engraulis ringens*	Peru	Vildoso and Chuman 1968	Simpson and Gil 1967	C	Y	0.52	15.5	5	6	8.1	2.097	TR	2	12
143		*Engraulis ringens*	Chile	Aguayo 1976	Longhurst and Pauly 1987	C	Y	0.73	19.0	5	4	13.9	2.421	CT	1	6
144		*Engraulis ringens*				C	Y	0.73	19.0	5	4	13.9	2.421	CT	1	6
145		*Engraulis ringens*				C	Y	0.73	19.0	5	4	13.9	2.421	CT	1	6
146		*Engraulis ringens*				C	Y	0.73	19.0	5	4	13.9	2.421	CT	1	6
147	20 Gadidae	*Gadus macrocephalus*	Hecate Strait	Kennedy 1970	Foucher and Welch 1987	C	Y	0.19	113.8	6	16	21.6	3.391	CT	1	3
148		*Gadus morhua*	North Sea	Daan 1974	Whitehead et al. 1984	C	N	0.33	111.0	8	9	36.6	3.609	CT	1	3
149		*Gadus morhua*				C	N	0.27	119.0	8	11	32.1	3.582	CT	1	3
150		*Gadus morhua*	NW Atlantic	NMFS (pers. comm.) 1989	Grosslein and Azarovitz 1982	C	Y	0.12	148.2	11	25	17.8	3.421	CT	1	2
151		*Gadus morhua*				C	Y	0.12	148.2	12	25	17.8	3.421	CT	1	2
152		*Gadus morhua*	NW Atlantic	Pentilla and Gifford 1976	Grosslein and Azarovitz 1982	C	N	0.12	148.1	15	25	17.8	3.420	CT	1	5
153		*Gadus morhua*				C	N	0.12	148.1	17	25	17.8	3.420	CT	1	5
154		*Melanogrammus aeglefinnus*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	C	Y	0.33	75.8	9	9	25.0	3.278	CT	1	3
155		*Merluccius bilinearis*	Nova Scotia	Mari and Dominguez 1979	Smith et al. 1979	C	Y	0.28	62.2	9	11	17.4	3.035	CT	1	5
156		*Merluccius bilinearis*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	C	Y	0.18	65.4	9	17	11.8	2.886	CT	1	5
157		*Merluccius bilinearis*				C	Y	0.18	65.4	9	17	11.8	2.886	CT	1	5
158		*Merluccius bilinearis*				C	Y	0.18	65.4	5	17	11.8	2.886	CT	1	5
159		*Merluccius bilinearis*				C	Y	0.18	65.4	7	17	11.8	2.886	CT	1	5
160		*Merluccius capensis*	SE Atlantic (South Africa)	Botha 1970	Botha 1986	C	Y	0.13	116.0	12	23	15.1	3.243	WT	2	6
161		*Merluccius capensis*	SE Atlantic	Kono 1980		F	Y	0.12	114.8	12	25	13.8	3.199	WT	1	8
162		*Merluccius capensis*				M	Y	0.14	100.0	11	21	14.0	3.146	WT	1	8
163		*Merluccius capensis*	SE Atlantic	MacPherson 1975	Kono 1980	C	Y	0.14	100.2	9	21	14.0	3.148	WT	1	8
164		*Merluccius capensis*	SE Atlantic	Dias and Morais da Cunha 1986	Kono 1980	C	Y	0.14	100.2	8	21	14.0	3.148	WT	1	8
165		*Merluccius capensis*	SE Atlantic	MacPherson et al. 1985	Kono 1980	C	Y	0.19	82.6	6	16	15.7	3.113	WT	1	8
166		*Merluccius capensis*				C	Y	0.09	144.0	1[illegible]	33	13.0	3.271	WT	1	8
167		*Merluccius capensis*				C	Y	0.08	138.8	13	37	11.1	3.188	WT	1	8
168		*Merluccius capensis*				C	Y	0.10	110.0	11	30	11.0	3.083	WT	1	8
169		*Merluccius capensis*				C	Y	0.18	100.4	12	17	18.1	3.259	WT	1	8
170		*Merluccius capensis*	SE Atlantic	MacPherson et al. 1987	Kono 1980	C	Y	0.11	125.8	12	27	13.8	3.241	WT	1	8
171		*Merluccius capensis*				C	Y	0.11	125.8	9	27	13.8	3.241	WT	1	8
172		*Merluccius capensis*	SE Atlantic	Payne 1980	Kono 1980	C	Y	0.11	125.8	10	27	13.8	3.241	WT	1	8
173		*Merluccius gayi*	Chile	Aguayo 1971	Balbontin and Fischer 1981	M	N	0.45	53.4	7	7	24.0	3.108	WT	3	12

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	ω	φ'	Env.	Spawning pattern	Spawning duration (months)
174		*Merluccius merluccius*	Med. (Tunisia)	Boubtel and Ktari 1975		C	Y	0.16	71.4	8	19	11.4	2.912	WT	5	12
175		*Merluccius merluccius*				C	Y	0.16	69.5	8	19	11.1	2.888	WT	5	12
176		*Merluccius productus*	NE Pacific	Ehrich et al. 1980	McFarlane and Beamish 1986	M	Y	0.19	70.4	11	16	13.4	2.974	CT	1	3
177		*Merluccius productus*				F	Y	0.13	85.9	11	23	11.2	2.982	CT	1	3
178		*Merluccius paradoxus*	SE Atlantic	Kono 1980		F	Y	0.12	119.7	12	25	14.4	3.235	WT	1	8
179		*Merluccius paradoxus*				M	Y	0.23	72.2	6	13	16.6	3.079	WT	1	8
180		*Merluccius paradoxus*				F	Y	0.11	120.7	12	27	13.3	3.205	WT	1	8
181		*Merluccius paradoxus*				M	Y	0.22	67.2	7	14	14.8	2.997	WT	1	8
182		*Merluccius paradoxus*	SE Atlantic	Dias and Morais da Cunha 1986	Kono 1980	C	Y	0.10	114.4	8	30	11.4	3.117	WT	1	8
183		*Merluccius paradoxus*	SE Atlantic	MacPherson et al. 1985	Kono 1980	C	Y	0.09	138.7	8	33	12.5	3.238	WT	1	8
184		*Merluccius paradoxus*				C	Y	0.10	114.4	8	30	11.4	3.117	WT	1	8
185		*Merluccius paradoxus*				C	Y	0.10	128.3	9	30	12.8	3.216	WT	1	8
186		*Merluccius paradoxus*	SE Atlantic	MacPherson et al. 1987	Kono 1980	C	Y	0.11	125.8	9	27	13.8	3.241	WT	1	8
187		*Merluccius paradoxus*				C	Y	0.11	125.8	9	27	13.8	3.241	WT	1	8
188		*Merluccius paradoxus*	SE Atlantic	Payne 1980	Kono 1980	C	Y	0.11	125.8	9	27	13.8	3.241	WT	1	8
189		*Micromesistius poutassou*	W Med.	Crespo et al. 1982	Relini and Peirano 1983	M	Y	0.27	32.3	6	11	8.7	2.450	WT	1	2
190		*Micromesistius poutassou*				F	Y	0.19	35.5	6	16	6.7	2.379	WT	1	2
191		*Micromesistius poutassou*	Med. (Ligurian Sea)	Relini and Peirano 1983		C	Y	0.18	44.5	7	17	8.0	2.552	WT	1	2
192		*Physis physis*	Azores	Marques da Silva 1985	Whitehead et al. 1984	C	N	0.19	65.3	15	16	12.4	2.909	WT	1	5
193		*Pollachius virens*	Nova Scotia	Lucio 1967	Smith et al. 1979	C	Y	0.10	111.4	17	30	11.1	3.094	CT	1	4
194		*Pollachius virens*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	C	Y	0.17	106.1	15	18	18.0	3.282	CT	1	4
195		*Theragra chalcogramma*	East Bering Sea	Ishida 1967	Incze et al. 1989	F	Y	0.40	53.8	8	7	21.5	3.064	CT	1	2
196		*Theragra chalcogramma*				M	Y	0.43	53.3	8	7	22.9	3.087	CT	1	2
197		*Theragra chalcogramma*				F	Y	0.20	62.0	7	15	12.4	2.886	CT	1	2
198		*Theragra chalcogramma*				M	Y	0.21	56.5	7	14	11.9	2.826	CT	1	2
199		*Trisopterus esmarki*	North Sea	Raitt 1968	Whitehead et al. 1984	M	Y	1.09	18.9	3	3	20.6	2.590	CT	1	7
200		*Trisopterus esmarki*				F	Y	1.35	20.0	3	2	27.0	2.732	CT	1	7
201		*Urophysis chuss*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	C	Y	0.19	60.2	11	16	11.4	2.838	CT	1	5
202		*Urophysis chuss*				C	Y	0.19	60.2	9	16	11.4	2.838	CT	1	5
203		*Urophysis chuss*				C	Y	0.19	60.2	9	16	11.4	2.838	CT	1	5
204		*Urophysis chuss*				C	Y	0.19	60.2	11	16	11.4	2.838	CT	1	5
205		*Urophysis tenuis*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	M	Y	?	?	7	?	?	?	CT	1	6
206		*Urophysis tenuis*				F	Y	?	?	18	?	?	?	CT	1	6
207		*Urophysis tenuis*				M	Y	?	?	13	?	?	?	CT	1	6
208		*Urophysis tenuis*				F	Y	?	?	12	?	?	?	CT	1	6
209	21 Girellidae	*Girella tricuspidata*	Moreton Bay (Australia)	Pollock 1981		C	N	0.21	40.9	10	14	8.6	2.546	TR	1	3
210		*Girella tricuspidata*				C	N	0.21	40.9	12	14	8.6	2.546	TR	1	3
211	22 Gobiidae	*Gobius niger*	Med. (Adriatic Sea)	Fabi and Giannetti 1985		M	Y	0.30	18.5	5	10	5.6	2.011	WT	1	5
212		*Gobius niger*				F	Y	0.19	16.9	4	16	3.2	1.735	WT	1	5
213		*Gobius niger*	Norway	Nash 1984		C	N	0.43	9.5	6	7	4.1	1.589	CT	1	3
214		*Lesueurigobius friesii*	N Bay of Biscay	Gros 1980	Whitehead et al. 1984	C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
215		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
216		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
217		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
218		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
219		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L_∞	Max. age	t 95%	ω	φ'	Env.	Spawning pattern	Spawning duration (months)
220		*Lesueurigobius friesii*				C	N	0.70	6.5	6	4	4.5	1.471	WT	1	4
221	23 Haemulidae	*Haemulon plumieri*	North and South Carolina	Manooch 1976	Munro et al. 1973	C	N	0.11	64.0	13	28	6.9	2.646	WT	1	6
222		*Haemulon plumieri*				C	N	0.11	64.0	13	28	6.9	2.646	WT	1	6
223		*Haemulon aurolineatum*	SE USA	Manooch and Barans 1982		C	N	0.22	31.0	10	14	6.8	2.325	TR	1	3
224		*Haemulon aurolineatum*				C	N	0.22	31.0	10	14	6.8	2.325	TR	1	3
225		*Parapristipoma trilineatum*	Kii Peninsula (Japan)	Kimura 1984		C	N	0.29	35.8	6	10	10.2	2.564	CT	1	2
226	24 Hexagrammidae	*Hexagrammos agrammos*	S Hokkaido (Japan)	Kitagawa and Kyushin 1984	Gorbunova 1962	F	N	0.91	18.9	4	3	17.2	2.512	WT	1	3
227		*Hexagrammos agrammos*				M	N	1.29	17.4	3	2	22.4	2.592	WT	1	3
228	25 Labridae	*Tautogolabrus adspersus*	Massachusetts	Serchuk and Cole 1974	Smith et al. 1979	C	N	0.20	28.5	5	15	5.7	2.211	CT	1	4
229	26 Lethrinidae	*Lethrinus choerorynchus*	NW Australia	Morales-Nin 1989	Nzioka 1979	C	N	0.43	32.6	5	7	14.0	2.660	TR	1	12
230		*Lethrinus lentjan*	India	Toor 1964		C	Y	0.27	64.5	5	11	17.4	3.050	TR	2	6
231		*Lethrinus lentjan*				C	Y	0.27	64.5	5	11	17.4	3.050	TR	2	6
232	27 Lophidae	*Lophius budegassa*	ICES Areas VII and VIII	Dupouy et al. 1984	Whitehead et al. 1984	M	N	0.10	84.8	15	31	8.1	2.839	WT	1	3
233		*Lophius budegassa*				F	N	0.07	111.2	16	45	7.5	2.918	WT	1	3
234		*Lophius piscatorius*				M	N	0.11	129.5	13	27	14.2	3.266	WT	1	3
235		*Lophius piscatorius*				F	N	0.08	166.6	14	37	13.3	3.346	WT	1	3
236		*Lophius upsicephalus*	SE Africa	Morales and Lombarte 1987	Griffiths and Hecht 1986	C	Y	0.04	121.0	11	75	4.8	2.768	WT	1	3
237	28 Lutjanidae	*Lutjanus analis*	Florida	Mason and Manooch 1985	Palazon and González 1986	C	N	0.15	86.2	14	20	12.9	3.047	TR	1	6
238		*Lutjanus bucanella*	Cuba	Espinosa and Pozo 1982	Grimes 1987	C	Y	0.12	60.1	9	25	7.2	2.637	TR	3	10
239		*Lutjanus bucanella*				C	Y	0.08	66.7	9	37	5.3	2.551	TR	3	10
240		*Lutjanus campechanus*	W Central Atlantic	Nelson and Manooch 1982	Grimes 1987	C	N	0.16	97.5	15	19	15.6	3.182	WT	1	8
241		*Lutjanus campechanus*	N Gulf of Mexico			C	N	0.16	97.5	14	19	15.6	3.182	WT	1	8
242		*Lutjanus chrysurus*	S Florida	Johnson 1983	Grimes 1987	C	N	0.28	45.1	14	11	12.6	2.754	TR	1	11
243		*Lutjanus kasmira*	Hawaii	Morales-Nin 1989	Grimes 1987	C	N	0.27	33.7	6	11	9.1	2.487	TR	3	10
244		*Lutjanus malabaricus*	NW Australia	Chen et al. 1984	Grimes 1987	C	N	0.25	86.1	10	12	21.7	3.272	TR	3	12
245		*Lutjanus seabae*	NW Australia	Yeh et al. 1986	Grimes 1987	C	N	0.13	81.7	10	23	10.5	2.935	TR	1	6
246		*Lutjanus synagris*	Trinidad	Manickchand-Dass 1987		F	N	0.22	70.8	4	14	15.6	3.042	TR	3	12
247		*Lutjanus synagris*				M	N	0.20	60.3	4	15	12.1	2.862	TR	3	12
248		*Lutjanus synagris*	S Florida	Manooch and Mason 1984	Grimes 1987	C	N	0.13	50.1	10	22	6.7	2.527	TR	1	7
249		*Lutjanus synagris*	Cuba	Rodriguez-Pino 1962		M	Y	0.31	33.1	4	10	10.3	2.531	TR	1	7
250		*Lutjanus synagris*				F	Y	0.31	33.4	6	10	10.4	2.539	TR	1	7
251		*Lutjanus vivanus*	Cuba	Pozo and Espinosa 1982	Grimes 1987	C	Y	0.10	75.7	10	30	7.6	2.758	TR	3	12
252		*Lutjanus vivanus*				C	Y	0.10	75.7	10	30	7.6	2.758	TR	3	12
253	29 Merluccidae	*Macruronus magellanicus*	Chile	Aguayo 1974	Bezzi 1984	C	Y	0.36	66.8	8	8	24.0	3.206	WT	3	12
254	30 Mugilidae	*Mugil cephalus*	Med. (Adriatic Sea)	Morovic 1964	Whitehead et al. 1984	C	N	0.31	48.5	6	10	15.0	2.863	WT	1	4
255		*Mugil cephalus*				C	N	0.17	68.5	7	18	11.6	2.902	WT	1	4
256		*Mugil cephalus*	S Texas	Cech and Wohlschlag 1975	Arnold and Thompson 1958	M	N	0.31	33.2	5	10	10.3	2.534	WT	1	2
257		*Mugil cephalus*				F	N	0.26	37.1	6	12	9.6	2.554	WT	1	2
258		*Mugil chelo*	Med. (Egypt)	El-Zarka and El-Sedfy 1970	Whitehead et al. 1984	C	N	0.17	60.4	8	18	10.3	2.793	WT	1	4
259		*Mugil chelo*				C	N	0.29	46.6	6	10	13.5	2.799	WT	1	4

Record	Family	Species	Location	Reference for age and growth	Spawning references	Sex	ALK	K	L_∞	Max. age	t 95%	σ	φ'	Env.	Spawning pattern	Spawning duration (months)
260		*Mugil saliens*	Med. (Egypt)	El-Zarka and El-Sedfy 1970	Whitehead et al. 1984	M	Y	0.29	36.5	3	10	10.6	2.587	WT	1	7
261		*Mugil saliens*				F	Y	0.21	40.1	4	14	8.4	2.529	WT	1	7
262	31 Mullidae	*Mullus barbatus*	Med. (Adriatic Sea)	Ameri and Jukic 1985	Whitehead et al. 1984	C	Y	0.29	24.8	5	10	7.2	2.251	WT	1	5
263		*Mullus barbatus*	Med. (Adriatic Sea)	Bourjis and Muznic 1958	Whitehead et al. 1984	M	Y	0.63	18.5	5	5	11.7	2.334	WT	1	5
264		*Mullus barbatus*				F	Y	0.51	23.1	5	6	11.8	2.435	WT	1	5
265	32 Nemipteridae	*Nemipterus furcosus*	NW Australia	Morales-Nin 1989	?	C	N	0.45	26.7	4	7	12.0	2.506	TR		
266		*Nemipterus peronii*	NW Australia	Sainsbury and Whitelaw 1984		C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
267		*Nemipterus peronii*				C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
268		*Nemipterus peronii*				C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
269		*Nemipterus peronii*				C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
270		*Nemipterus peronii*				C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
271		*Nemipterus peronii*				C	N	0.25	41.9	6	12	10.5	2.642	TR	1	12
272		*Nemipterus peronii*	NW Australia	Wu et al. 1986	Sainsbury and Whitelaw 1984	C	N	0.31	30.2	6	10	9.2	2.444	TR	1	12
273		*Nemipterus virgatus*	Hong Kong	Li 1960		C	Y	0.24	40.9	5	12	9.8	2.604	TR	1	5
274	33 Nototheniidae	*Notothenia marmorata*	W Antarctica	Freytag 1980		C	Y	0.11	97.2	8	28	10.4	3.005	BO	1	2
275		*Notothenia marmorata*				C	Y	0.11	86.9	9	27	9.7	2.927	BO	1	2
276		*Notothenia ramsayi*	Antarctica	Ekau 1982		C	Y	0.35	35.6	5	9	12.4	2.643	BO	1	2
277		*Notothenia ramsayi*				C	Y	0.22	44.4	5	14	9.8	2.637	BO	1	2
278		*Notothenia ramsayi*				C	Y	0.35	35.6	5	9	12.4	2.643	BO	1	2
279		*Notothenia ramsayi*				C	Y	0.22	44.4	5	14	9.8	2.637	BO	1	2
280		*Notothenia squamifrons*	Indian Sector (Ant.)	Duhamel and Ozouf-Costaz 1985		C	Y	0.08	67.0	19	38	5.2	2.544	BO	1	1
281	34 Ophidiidae	*Genypterus capensis*	SE Atlantic (South Africa)	Payne 1977		C	Y	0.06	205.3	15	48	12.7	3.417	WT	1	3
282		*Genypterus capensis*	SE Atlantic	Morales 1984	Payne 1977	C	N	0.17	101.1	9	18	17.2	3.240	WT	1	3
283	35 Parapercidae	*Pleuragramma antarticum*	Antarctica	Hubold and Tomo 1989		C	Y	0.05	38.9	21	60	1.9	1.879	BO	1	2
284		*Pleuragramma antarticum*				C	Y	0.06	30.3	21	50	1.8	1.741	BO	1	2
285	36 Pleuronectidae	*Eopsetta grigorjewi*	SW Japan Sea	Imaoka and Misu 1969	?	M	N	0.24	33.9	7	12	8.1	2.441	CT	?	?
286		*Eopsetta grigorjewi*				F	N	0.21	39.2	7	14	8.2	2.509	CT	?	?
287		*Eopsetta grigorjewi*				M	N	0.21	35.5	7	14	7.5	2.423	CT	?	?
288		*Eopsetta grigorjewi*				F	N	0.20	39.5	7	15	7.9	2.494	CT	?	?
289		*Glyptocephalus cynoglossus*	Irish Sea	Bowers 1959	Whitehead et al. 1984	F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
290		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
291		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
292		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
293		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
294		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
295		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
296		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
297		*Glyptocephalus cynoglossus*				F	N	0.38	36.1	10	8	13.7	2.695	CT	1	5
298		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
299		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
300		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
301		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
302		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	ω	φ'	Env.	Spawning pattern	Spawning duration (months)
303		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
304		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
305		*Glyptocephalus cynoglossus*				M	N	0.31	30.9	10	10	9.6	2.471	CT	1	5
306		*Hippoglossoides platessoides*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	M	Y	0.17	59.9	12	18	10.1	2.783	CT	1	5
307		*Hippoglossoides platessoides*				F	Y	0.17	64.2	18	18	10.8	2.843	CT	1	5
308		*Hippoglossoides platessoides*				M	Y	0.17	64.2	12	18	10.8	2.843	CT	1	5
309		*Hippoglossoides platessoides*				F	Y	0.17	64.2	18	18	10.8	2.843	CT	1	5
310		*Lepidopsetta bilineata*	NE Pacific	Levings 1967	Hart 1973	F	Y	0.15	55.0	13	20	8.3	2.657	CT	1	3
311		*Lepidopsetta bilineata*				F	Y	0.15	41.8	13	20	6.1	2.410	CT	1	3
312		*Lepidopsetta bilineata*				F	Y	0.18	39.2	20	17	7.1	2.442	CT	1	3
313		*Lepidopsetta bilineata*				F	Y	0.13	48.5	20	23	6.3	2.485	CT	1	3
314		*Lepidopsetta bilineata*				M	Y	0.12	48.8	15	25	5.9	2.456	CT	1	3
315		*Lepidopsetta bilineata*	NE Pacific	Chilton and Smith 1971	Hart 1973	F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
316		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
317		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
318		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
319		*Lepidopsetta bilineata*				M	N	0.15	55.0	15	20	8.3	2.657	CT	1	3
320		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
321		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
322		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
323		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
324		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
325		*Lepidopsetta bilineata*				M	N	0.15	55.0	15	20	8.3	2.657	CT	1	3
326		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
327		*Lepidopsetta bilineata*				M	N	0.15	55.0	15	20	8.3	2.657	CT	1	3
328		*Lepidopsetta bilineata*				F	N	0.15	55.0	20	20	8.3	2.657	CT	1	3
329		*Lepidopsetta bilineata*				M	N	0.15	55.0	15	20	8.3	2.657	CT	1	3
330		*Limanda yokohamae*	Ise Bay (Japan)	Suzuki 1967	Solomon et al. 1987	C	N	0.33	33.7	4	9	11.1	2.574	CT	1	3
331		*Microstomus pacificus*	California	Hagerman 1952		F	N	0.26	46.0	15	12	11.9	2.739	CT	1	3
332		*Pseudopleuronectes americanus*	Long Island (NY)	Poole 1966	Smith el al. 1979	F	Y	0.18	45.3	6	17	8.2	2.567	CT	1	4
333		*Pseudopleuronectes americanus*				F	Y	0.29	40.1	6	10	11.6	2.669	CT	1	4
334		*Pseudopleuronectes americanus*				F	Y	0.25	47.2	7	12	11.8	2.746	CT	1	4
335		*Reinhardtius hippoglossoides*	Greenland	Smidt 1969		C	N	0.10	111.7	19	30	11.2	3.096	BO	1	3
336	37 Plotosidae	*Cnidoglanis macrocephalus*	SW Australia	Nel et al. 1985		C	N	0.20	91.7	5	15	18.3	3.226	WT	1	3
337	38 Rajidae	*Raja erinacea*	NW Atlantic	Waring 1984		C	Y	0.35	52.7	10	9	18.6	2.990	CT	1	12
338		*Raja erinacea*				C	Y	0.35	52.7	10	9	18.6	2.990	CT	1	12
339	39 Sciaenidae	*Argyrosomus argentatus*	Yellow Sea/E China Sea	Lee and Park 1978	Shingu 1962	C	Y	0.76	35.3	6	4	26.8	2.976	WT	1	3
340		*Argyrosomus argentatus*				C	Y	0.72	35.7	6	4	25.7	2.963	WT	1	3
341		*Argyrosomus argentatus*				C	Y	0.76	36.3	6	4	27.6	3.001	WT	1	3
342		*Argyrosomus argentatus*				C	Y	0.73	35.5	6	4	25.9	2.964	WT	1	3
343		*Argyrosomus argentatus*	East China Sea	Liu and Chiu 1981	Shingu 1962	C	N	0.76	31.5	6	4	23.9	2.877	WT	1	3
344		*Argyrosomus argentatus*				C	N	0.72	32.6	6	4	23.5	2.884	WT	1	3
345		*Argyrosomus argentatus*				C	N	0.48	32.0	6	6	15.3	2.690	WT	1	3
346		*Argyrosomus nibe*	E China Sea	Sato 1963		C	Y	0.25	43.2	9	12	10.8	2.669	WT	2	6
347		*Cynoscion analis*	Peru	Samame and Okada 1973	Samame 1971	C	Y	0.23	47.5	8	13	10.9	2.715	WT	1	6

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	ω	φ'	Env.	Spawning pattern	Spawning duration (months)
348		*Cynoscion analis*				C	Y	0.16	52.8	8	19	8.4	2.649	WT	1	6
349		*Cynoscion analis*				C	Y	0.20	47.7	7	15	9.5	2.658	WT	1	6
350		*Cynoscion analis*				C	Y	0.25	43.8	7	12	11.0	2.681	WT	1	6
351		*Cynoscion nebulosus*	Galveston Bay	Maceina et al. 1987	Ault and Fox 1988	M	N	0.32	56.8	12	9	18.2	3.014	WT	2	7
352		*Cynoscion nebulosus*				F	N	0.26	75.3	9	12	19.6	3.169	WT	2	7
353		*Cynoscion nobilis*	California	Thomas 1968		C	N	0.13	146.5	13	23	19.0	3.446	CT	1	5
354		*Larimus fasciatus*	North Carolina	Ross 1988	Ross 1984	C	Y	0.98	17.8	4	3	17.4	2.492	CT	1	6
355		*Menticirrhus saxatilis*	New York	Schaefer 1965	Bigelow and Schroeder 1953	M	Y	0.70	38.7	4	4	27.1	3.021	CT	1	3
356		*Menticirrhus saxatilis*				F	Y	0.56	44.8	4	5	25.1	3.051	CT	1	3
357		*Micropogonias undulatus*	N Gulf of Mexico	Barger 1985	Warlen 1982	C	N	0.27	41.9	8	11	11.3	2.676	WT	1	5
358		*Micropogonias undulatus*	North Carolina	Ross 1988	Grosslein and Azarovitz 1982	C	Y	0.20	64.5	8	15	12.9	2.920	CT	1	7
359		*Micropogonias undulatus*				C	Y	0.20	64.5	8	15	12.9	2.920	CT	1	7
360		*Micropogonias undulatus*				C	Y	0.20	64.5	8	15	12.9	2.920	CT	1	7
361		*Otolithoides brunneus*	India	Jayaprakash 1976	Qasim 1973	C	Y	0.14	206.4	13	21	28.9	3.776	TR	1	4
362		*Otolithoides brunneus*	India	Kutty 1963	Qasim 1973	C	Y	0.18	169.0	12	17	30.4	3.711	TR	1	4
363		*Otolithoides brunneus*				C	Y	0.18	169.0	12	17	30.4	3.711	TR	1	4
364		*Pseudosciaena diacanthus*	India	Rao 1968	Qasim 1973	C	Y	0.32	122.1	8	9	39.1	3.679	TR	1	4
365		*Pseudosciaena diacanthus*	India	Rao 1966		C	Y	0.32	122.1	6	9	39.1	3.679	TR	1	4
366		*Pseudosciaena diacanthus*	India	Rao 1962		C	Y	0.39	113.9	8	8	44.4	3.704	TR	1	4
367		*Pseudosciaenia diacanthus*	India	Rao 1968	Qasim 1973	C	N	0.24	134.4	8	12	32.3	3.637	TR	1	4
368		*Pseudosciaena manchurica*	Yellow Sea/E China Sea	Lee 1977	Park 1981	C	Y	0.37	34.8	10	8	12.9	2.651	WT	1	3
369		*Pseudotolithus senegalensis*	West Africa	Poinsard and Troadec 1966	Whitehead et al. 1984	C	Y	0.33	53.5	9	9	17.7	2.975	TR	1	5
370		*Pseudotolithus senegalensis*				C	Y	0.42	50.1	9	7	21.0	3.023	TR	1	5
371		*Pseudotolithus typus*	West Africa	Poinsard and Troadec 1966	Whitehead et al. 1984	C	Y	0.28	68.0	8	11	19.0	3.112	TR	1	6
372		*Pseudotolithus typus*				C	Y	0.35	66.9	8	9	23.4	3.195	TR	1	6
373	40 Scombridae	*Euthynnus alleteratus*	E Atlantic (Spain)	Rodriguez-Roda 1979		C	Y	0.19	114.6	4	16	21.9	3.399	WT	1	8
374		*Katsuwonus pelamis*	Cuba	Coll 1985	Erdman 1976	C	Y	0.87	53.6	5	3	46.6	3.398	TR	3	12
375		*Katsuwonus pelamis*				C	Y	0.16	78.5	6	19	12.6	2.994	TR	3	12
376		*Katsuwonus pelamis*				C	Y	0.27	68.5	6	11	18.5	3.103	TR	3	12
377		*Katsuwonus pelamis*				C	Y			6				TR	3	12
378		*Sarda chiliensis*	E North Pacific	Campbell and Collins 1975	Goldberg and Mussiett 1984	C	N	0.62	76.9	5	5	47.8	3.566	CT	1	6
379		*Scomber australasicus*	SE Australia	Stevens et al. 1984		C	N	0.24	44.1	10	12	10.6	2.669	CT	1	3
380		*Scomber japonicus*	Japan	Ouchi 1978	Kondō and Kuroda 1966	C	N	0.63	38.1	5	5	24.0	2.961	CT	1	4
381		*Scomber japonicus*				C	N	0.63	38.1	5	5	24.0	2.961	CT	1	4
382		*Scomber japonicus*	Japan	Kondō and Kuroda 1966		C	Y	0.51	40.0	6	6	20.4	2.912	CT	1	4
383		*Scomber japonicus*	California	Parrish and Knaggs 1971	Parrish and MacCall 1978	C	Y	0.25	42.3	6	12	10.5	2.648	CT	1	5
384		*Scomber japonicus*				C	Y	0.31	41.3	6	10	12.7	2.720	CT	1	5
385		*Scomber japonicus*				C	Y	0.47	38.9	6	6	18.3	2.852	CT	1	5
386		*Scomber japonicus*				C	Y	0.26	42.4	6	12	11.0	2.670	CT	1	5
387		*Scomber japonicus*				C	Y	0.32	40.2	6	9	12.9	2.713	CT	1	5
388		*Scomber japonicus*				C	Y	0.29	41.9	6	10	12.0	2.701	CT	1	5
389		*Scomber japonicus peruanus*	Peru	Mendo 1984		C	Y	0.41	40.6	6	7	16.6	2.830	WT	1	12
390		*Scomber scombrus*	Cantabrian Sea (Spain)	Cort et al. 1986	Whitehead et al. 1984	C	Y	0.26	43.5	15	12	11.3	2.692	WT	1	4
391		*Scomber scombrus*	NW Atlantic	NMFS (pers. comm.) 1989	Smith et al. 1979	C	Y	0.27	40.7	14	11	11.0	2.651	CT	1	3
392		*Scomberomorus cavalla*	SE USA	Johnson et al. 1983	Finucane et al. 1986	M	Y	0.28	96.5	10	11	27.0	3.416	TR	1	7
393		*Scomberomorus niphonius*	Seto Inland Sea (Japan)	Kishida et al. 1985		M	N	0.91	80.4	4	3	73.0	3.769	CT	1	3
394		*Scomberomorus niphonius*				F	N	0.52	101.1	6	6	52.4	3.724	CT	1	3

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	α	φ'	Env.	Spawning pattern	Spawning duration (months)
395		*Thunnus alalunga*	B. of Biscay	Gonzalez-Garces & Farina-Perez 1983		C	Y	0.13	140.1	7	23	18.2	3.407	WT	1	6
396		*Thunnus alalunga*	Japan	Yabuta and Yukinawa 1983	Ault and Fox 1988	C	N	0.10	163.3	5	30	16.3	3.426	WT	1	7
397		*Thunnus alalunga*				C	N	0.13	136.3	6	23	17.7	3.383	WT	1	7
398		*Thunnus albacares*	Japan	Yabuta and Yukinawa 1983	Whitehead et al. 1984	C	Y	0.37	192.4	8	8	71.2	4.137	WT	1	5
399		*Thunnus germo*	California	Bell 1962	Sund et al. 1981	C	N	0.23	108.8	6	13	25.0	3.435	CT	1	3
400		*Thunnus obesus*	Central Atl.	Draganik and Pelazarski 1983	Whitehead et al. 1984	C	Y	0.23	218.8	7	13	50.3	4.042	TR	3	12
401		*Thunnus thynnus*	W Med. and B. of Biscay	Compeán-Jimenez and Bard 1983	Whitehead et al. 1984	C	N	0.07	372.2	19	43	26.1	3.987	WT	1	3
402		*Thunnus thynnus*	NW Atlantic	Farber and Lee 1980		C	N	0.12	313.0	10	25	37.6	4.070	CT	1	3
403		*Thunnus thynnus*	E Atlantic	Rey and Cort 1983	Whitehead et al. 1984	C	Y	0.07	372.2	9	43	26.1	3.987	WT	1	3
404		*Thunnus thynnus*	W Atlantic	Hurley and Isles 1983		M	N	0.17	278.0	30	18	47.3	4.119	CT	1	3
405		*Thunnus thynnus*				F	N	0.17	266.0	32	18	45.2	4.080	CT	1	3
406	41 Scophthalmidae	*Scophthalmus maximus*	North Sea	Van Leeuwen and Rijnsdorp 1986		M	N	0.44	48.0	15	7	21.1	3.006	CT	1	5
407		*Scophthalmus maximus*				F	N	0.29	66.9	15	10	19.4	3.113	CT	1	5
408		*Scophthalmus maximus*				M	N	0.56	45.7	12	5	25.6	3.068	CT	1	5
409		*Scophthalmus maximus*				F	N	0.32	66.6	15	9	21.3	3.152	CT	1	5
410		*Scophthalmus rhombus*	North Sea	Lucio 1986		M	N	0.37	50.6	6	8	18.7	2.977	CT	1	6
411		*Scophthalmus rhombus*				F	N	0.32	60.8	11	9	19.5	3.073	CT	1	6
412	42 Scorpaenidae	*Gymnapistes marmoratus*	S Tasmania	Grant 1972		M	N	0.12	21.4	14	26	2.5	1.729	CT	1	2
413		*Gymnapistes marmoratus*				F	N	0.12	21.4	14	26	2.5	1.729	CT	1	2
414		*Helicolenus percoides*	SE Australia	Withell and Wankowski 1988	?	F	N	0.11	44.7	30	27	4.9	2.342	WT	?	?
415		*Helicolenus percoides*				M	N	0.12	43.2	32	25	5.2	2.350	WT	?	?
416		*Sebastodes aleutus*	NE Pacific	Chikuni 1970	Hart 1973	C	Y	0.10	41.1	19	30	4.1	2.228	CT	1	3
417		*Sebastodes aleutus*				C	Y	0.10	41.1	19	30	4.1	2.228	CT	1	3
418		*Sebastes polyspinis*	NE Pacific	Westrheim and Tsuyuki 1971	Hart 1973	C	Y	0.18	31.4	15	17	5.7	2.249	CT	1	3
419		*Scorpaena guttata*	S California Bight	Love et al. 1987		M	N	0.12	36.3	15	25	4.4	2.199	WT	1	5
420		*Scorpaena guttata*				F	N	0.13	44.3	21	23	5.8	2.407	WT	1	5
421	43 Serranidae	*Centropristes striata*	New York	Briggs 1978	Grosslein and Azarovitz 1982	M	Y	0.43	35.7	9	7	15.4	2.739	CT	1	3
422		*Centropristes striata*				F	Y	0.46	34.9	9	7	16.1	2.748	CT	1	3
423		*Dicentrarchus labrax*	British Isles	Kelley 1988	Whitehead et al. 1984	F	N	0.09	72.0	27	33	6.5	2.669	CT	1	4
424		*Dicentrarchus labrax*				M	N	0.09	75.1	27	33	6.8	2.706	CT	1	4
425		*Diplectrum pacificum*	Bay of Panama	Bortone 1977	?	C	N	0.15	32.3	7	20	4.8	2.194	TR	?	?
426		*Diplectrum macropoma*	Bay of Panama		?	C	N	0.37	14.5	5	8	5.4	1.891	TR	?	?
427		*Epinephilus aeneus*	Med. (Egypt)	Ezzat et al. 1981	Bousin and Siau 1983	C	Y	0.15	136.0	9	20	20.7	3.449	WT	1	3
428		*Epinephilus alexandricus*	Med. (Egypt)	Wadie et al. 1981	Bousin and Siau 1983	C	Y	0.12	86.2	8	24	10.7	2.964	WT	1	2
429		*Epinephelus cruentatus*	Curacao	Nagelkerken 1979		M	N	0.13	41.5	9	23	5.4	2.350	TR	1	6
430		*Epinephelus cruentatus*				F	N	0.13	41.5	9	23	5.4	2.350	TR	1	6
431		*Epinephilus morio*	E Gulf of Mexico	Moe 1969		C	N	0.18	67.2	24	17	12.0	2.908	WT	1	2
432		*Morone saxatilis*	California	Robinson 1960	Whipple et al. 1981	M	N	0.22	87.4	10	14	19.2	3.225	CT	1	3
433		*Morone saxatilis*				F	N	0.16	113.1	10	19	18.1	3.311	CT	1	3
434		*Morone saxatilis*	California	Collins 1982		M	N	0.20	95.5	23	15	18.9	3.257	CT	1	4
435		*Morone saxatilis*				F	N	0.20	102.3	23	15	20.4	3.319	CT	1	4
436		*Serranus subligarius*	Gulf coast of Florida	Hastings and Bortone 1980		C	N	0.57	8.9	5	5	5.1	1.655	WT	1	6
437	44 Sparidae	*Argyrozona argyrozona*	SE Atlantic (South Africa)	Nepgen 1977		C	Y	0.07	74.4	12	42	5.3	2.594	WT	1	6
438		*Boops boops*	Golfe de Lion (France)	Girardin and Quignard 1986	Whitehead et al. 1984	C	N	0.26	26.9	12	12	7.0	2.274	WT	1	3

Record	Family	Species	Location	Rererence for age and growth	Spawning references	Sex	ALK	K	L∞	Max. age	t 95%	a	φ'	Env.	Spawning pattern	Spawning duration (months)
439		*Calamus leucosteus*	South Atlantic Bight	Waltz et al. 1982		C	N	0.17	33.1	13	17	5.7	2.278	WT	1	5
440		*Calamus leucosteus*				C	N	0.26	36.2	13	11	9.4	2.534	WT	1	5
441		*Dentex tumifrons*	East and South China Sea	Su and Liu 1975		C	N	0.25	30.6	5	12	7.7	2.369	WT	2	6
442		*Dentex tumifrons*				C	N	0.27	30.7	5	11	8.3	2.406	WT	1	4
443		*Dentex tumifrons*	Hong Kong	Li 1958		C	Y	0.26	33.2	5	12	8.6	2.457	WT	3	12
444		*Pachymetopon blochii*	SE Atlantic (South Africa)	Nepgen 1977		C	Y	0.14	42.0	9	21	6.0	2.405	WT	1	12
445		*Pagrus pagrus*	W Central Atlantic	Manooch and Huntsman 1977		C	N	0.10	76.3	16	31	7.3	2.747	WT	1	3
446		*Pagrus pagrus*				C	N	0.10	76.3	16	31	7.3	2.747	WT	1	3
447		*Pagellus bogaraveo*	Atl. (France)	Gueguen 1969		C	Y	0.09	56.8	19	33	5.1	2.463	WT	4	12
448		*Pagellus bogaraveo*	Azores	Krug 1989	Whitehead et al. 1984	C	Y	0.12	58.5	15	26	6.8	2.602	WT	1	12
449		*Sienotomus chrysops*	NW Atlantic	NMFS (pers. comm.) 1989	Grosslein and Azarovitz 1982	C	Y	0.17	42.4	9	18	7.2	2.485	CT	1	4
450		*Sienotomus chrysops*				C	Y	0.17	42.4	5	18	7.2	2.485	CT	1	4
451	45 Soleidae	*Austroglossus microlepis*	SE Africa	Morales 1982	?	C	Y	0.07	57.1	12	43	4.0	2.358	WT	?	?
452		*Solea solea*	North Sea	Nielsen 1972	Whitehead et al. 1984	C	N	0.31	37.4	6	10	11.6	2.637	CT	1	3
453	46 Sternoptychidae	*Maurolicus muelleri*	Norway	Gjoesaeter 1981		C	N	1.05	4.9	4	3	5.1	1.398	CT	1	7
454		*Maurolicus muelleri*				C	N	0.88	5.9	4	3	5.2	1.492	CT	1	7
455	47 Synodontidae	*Saurida tumbil*	East and South China Sea	Yeh et al. 1977		M	N	0.12	63.7	6	25	7.6	2.687	WT	1	3
456		*Saurida tumbil*				F	N	0.10	74.2	7	30	7.4	2.741	WT	1	3
457		*Saurida tumbil*				M	N	0.08	78.3	7	37	6.3	2.691	WT	1	3
458		*Saurida tumbil*				F	N	0.10	79.5	7	30	8.0	2.801	WT	1	3
459		*Saurida undosquamis*	Taiwan Strait	Lee et al. 1986		M	N	0.19	44.2	7	16	8.4	2.570	TR	1	7
460		*Saurida undosquamis*				F	N	0.10	68.5	10	30	6.9	2.671	TR	1	7
461	48 Triakidae	*Mustelus manazo*	Choshi (Japan)	Taniuchi et al. 1983		M	Y	0.19	104.3	9	16	19.8	3.315	CT	1	2
462		*Mustelus manazo*				F	Y	0.03	277.1	9	94	8.9	3.390	CT	1	2
463	49 Triglidae	*Eutrigla gurnardos*	Greece	Papaconstantinou 1982		M	Y	0.22	26.4	5	14	5.8	2.184	WT	1	6
464		*Trigloporus lastovita*	Savonikos Gulf (Greece)	Papaconstantinou 1986		F	N	0.18	31.3	7	17	5.6	2.246	WT	1	6
465		*Trigloporus lastovita*				M	N	0.22	27.3	9	14	6.0	2.215	WT	1	6
466	50 Zoarcidae	*Lycodopsis pacifica*	British Columbia	Levings 1969		M	Y	0.31	24.5	5	10	7.6	2.270	CT	1	4
467		*Lycodes vahlii gracilis*	Norway	Nash 1986		M	N	0.14	27.5	10	21	3.9	2.032	CT	1	3
468		*Lycodes vahlii gracilis*				F	N	0.39	15.3	10	8	6.0	1.963	CT	1	3

Table B

Raw data and calculated descriptive statistics. For each record the following data is included:

1) Record number
2) Sample size (n).
3) Age.
4) Mean length-at-age.
5) Relative length (mean length-at-age divided by L_∞).
6) Measures of dispersion (standard deviation and coefficient of variation).
7) Values for overlap indices 1 and 2.
8) Results of χ^2 test of normality (O = could not do, S = significant ($p \leq 0.05$), N = not significant).
9) Estimates of skewness (g_1) and kurtosis (g_2).

Empty spaces in the column corresponding to sample size (n) indicate that these were not available and overlap index 2 could not be calculated in these cases. Tests of normality and estimation of skewness and kurtosis are only possible if an age-length key was available.

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
1	137	1	22.4	0.34	2.8	12.4	0.24	1.70			
	111	2	30.5	0.46	30.8	100.8	0.10	0.23			
	102	3	37.6	0.57	37.9	100.8	0.08	0.18			
	92	4	44.5	0.67	44.9	100.9	0.10	0.02			
	63	5	49.5	0.75	3.0	6.1	0.60	0.86			
	44	6	53.0	0.80	2.8	5.3	0.49	1.02			
	23	7	55.9	0.84	3.1	5.5	0.29	0.55			
	14	8	57.6	0.87	2.8	4.8	0.17	0.40			
	7	9	58.7	0.88	3.6	6.1					
2		2	15.0	0.57	2.5	16.7	0.81				
		3	18.2	0.70	1.5	8.1	0.81				
		4	20.5	0.78	1.4	6.6	0.69				
		5	22.2	0.85	1.0	4.6	0.53				
		6	23.3	0.89	1.2	5.1					
3	9	4	36.7	0.26	5.0	13.6	1.33	1.32	O	0..07	- 0.643
	9	5	49.4	0.36	4.6	9.4	0.61	0.00	O	- 0.944	1.354
	22	6	55.9	0.40	5.9	10.6	0.84	0.49	O	0.188	0.692
	42	7	67.9	0.49	8.3	12.2	0.55	0.00	S	- 0.081	0.270
	106	8	76.0	0.55	6.6	8.6	0.67	0.61	N	0.120	- 0.752
	115	9	84.9	0.61	6.5	7.7	0.35	0.63	N	- 0.430	- 0.225
	94	10	89.4	0.65	6.5	7.2	0.50	0.59	N	- 0.113	- 0.146
	86	11	95.9	0.69	6.5	6.8	0.30	0.15	N	- 0.466	0.713
	90	12	99.6	0.72	5.9	5.9	0.44	0.73	N	0.279	- 0.443
	79	13	105.4	0.76	7.4	7.0	0.30	0.20	N	- 0.008	- 0.214
	80	14	109.6	0.79	6.7	6.1	0.23	0.48	N	- 0.058	- 0.543
	55	15	112.9	0.82	7.6	6.8	0.26	0.42	N	0.295	- 0.147
	25	16	116.2	0.84	5.3	4.5	0.07	0.15	O	- 0.291	- 0.709
	15	17	117.0	0.85	5.6	4.8	0.05	0.09	O	0.112	- 1.291
	10	18	117.5	0.85	4.9	4.1			O	- 0.454	- 0.516
4	38	0	30.3	0.29	3.3	10.8	1.47	1.01	S	0.084	- 0.736
	149	1	40.4	0.38	3.5	8.8	0.76	1.13	S	- 0.665	0.845
	98	2	46.4	0.44	4.5	9.7	0.49	1.02	N	0.362	0.157
	13	3	51.1	0.49	5.1	9.9	0.26	0.00	O	- 0.361	1.193
	17	4	54.0	0.51	6.1	11.3	0.36	0.66	N	- 0.257	- 0.396
	5	5	58.0	0.55	4.9	8.5	0.66	0.57	O	0.000	1.500
	8	6	68.3	0.65	10.7	15.6	1.02	1.23	O	0.247	- 0.334
	2	7	82.0	0.78	2.8	3.5	0.11	0.00	O	0.000	0.000
	3	8	82.7	0.79	3.1	3.7	0.00	0.00	O	0.935	0.000
	1	9	0.0	0.00	0.0	0.0	0.00	0.00	O	0.000	0.000
	4	10	86.0	0.82	4.6	5.4	0.11	0.22	O	0.000	- 6.000
	2	11	87.0	0.83	4.2	4.9			O	0.000	0.000
5	25	1	32.0	0.34	2.2	6.8	2.20	2.18	O	0.000	- 0.426
	37	2	45.9	0.49	4.2	9.1	0.53	0.38	N	- 0.022	- 0.838
	49	3	51.0	0.54	5.6	10.9	0.48	0.61	S	0.592	- 0.233
	35	4	55.5	0.59	3.9	6.9	0.57	1.58	N	- 0.310	0.292
	15	5	62.6	0.67	8.7	13.8			N	0.505	0.172
	40	0	28.8	0.32	1.7	6.1	2.52	3.05	O	- 0.089	- 0.680
6	7	1	43.1	0.48	4.0	9.2	0.90	0.00	O	0.655	0.348
	34	2	50.4	0.56	4.1	8.2	0.58	1.09	N	0.251	0.669
	23	3	56.3	0.63	6.0	10.7	0.27	0.10	S	1.566	5.830
	23	4	59.2	0.66	4.7	8.0	0.48	1.10	N	0.739	0.066
	14	5	64.4	0.72	6.2	9.6	0.28	0.81	O	0.658	0.220
	8	6	69.5	0.77	12.2	17.5	0.20	0.33	O	1.236	1.482
	4	7	73.5	0.82	7.6	10.3			O	- 0.358	0.257
7	144	2	14.8	0.58	0.7	4.9	2.14	2.08	N	0.023	0.304
	174	3	18.2	0.71	0.9	4.8	0.67	1.24	N	- 0.725	1.641
	37	4	19.3	0.76	0.8	4.0	1.03	1.03	N	- 0.230	- 0.183
	30	5	20.7	0.81	0.5	2.5	0.63	1.17	O	- 0.332	- 0.522
	18	6	21.4	0.84	0.6	2.8			O	0.366	0.039
8	85	2	16.7	0.71	0.8	4.9	1.33	1.96	S	- 0.659	0.090
	14	3	18.9	0.80	0.8	4.2	1.16	1.26	O	- 0.659	1.142
	8	4	20.4	0.86	0.5	2.6	0.79	0.58	O	- 0.386	- 0.448
	12	5	21.1	0.89	0.4	2.0	1.16	1.39	O	0.441	[illegible]234
	6	6	22.0	0.93	0.3	1.5			O	0.000	2.500

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
9	22	2	17.9	0.28	1.8	10.2	1.97	1.76	O	0.147	- 0.586
	49	3	25.9	0.41	2.3	8.8	0.81	1.27	S	0.335	- 0.376
	24	4	29.8	0.47	2.5	8.4	1.25	1.60	O	0.573	- 0.392
	7	5	35.0	0.56	1.6	4.7			O	0.000	- 1.200
10	33	2	17.8	0.31	2.2	12.3	1.45	1.24	S	0.899	0.278
	62	3	24.5	0.42	2.5	10.0	1.23	1.22	N	- 0.076	- 0.659
	64	4	30.5	0.53	2.4	7.9	1.08	1.65	N	- 0.149	- 0.330
	17	5	35.5	0.61	2.2	6.2	0.78	1.58	O	- 0.350	- 0.321
	6	6	39.6	0.69	3.0	7.6	0.63	0.56	O	- 0.840	- 0.649
	5	7	42.6	0.74	1.7	3.9			O	0.512	- 0.612
11		0	13.0	0.52	0.8	6.2	2.33	0.00			
		1	17.0	0.68	0.9	5.4	2.20	0.00			
		2	21.0	0.84	0.9	4.3	1.16	0.00			
		3	23.0	0.92	0.8	3.6					
12	18	1	25.0	0.51	2.9	11.6	0.89	0.00			
	99	2	31.3	0.64	4.2	13.4	0.45	0.00			
	192	3	35.7	0.73	5.6	15.7	0.42	0.57			
	186	4	40.8	0.83	6.7	16.4	0.35	0.64			
	134	5	45.1	0.92	5.6	12.4	0.10	0.20			
	72	6	46.2	0.94	5.6	12.1	0.12	0.23			
	28	7	47.5	0.97	5.2	11.0	0.15	0.00			
	10	8	46.3	0.94	2.7	5.8	0.46	1.78			
	2	9	51.2	1.04	7.9	15.4					
13	12	1	25.9	0.59	3.4	13.1	0.59	0.00			
	93	2	30.0	0.68	3.5	11.7	0.38	0.00			
	187	3	33.1	0.76	4.6	13.9	0.28	0.63			
	161	4	36.0	0.82	5.8	16.1	0.32	0.67			
	85	5	39.9	0.91	6.4	16.0	0.03	0.06			
	55	6	40.3	0.92	6.4	15.9	0.12	0.27			
	16	7	42.0	0.96	7.4	17.6	0.19	0.38			
	5	8	44.9	1.02	8.0	17.7	0.06	0.00			
	10	9	45.8	1.05	7.1	15.5					
14	83	1	14.8	0.28	1.1	7.1	1.90	2.00			
	81	2	20.4	0.38	1.9	9.3	1.31	1.05			
	168	3	24.6	0.46	1.3	5.3	1.65	1.54			
	222	4	28.9	0.54	1.3	4.5	1.82	1.77			
	230	5	32.9	0.61	0.9	2.7	1.30	1.67			
	115	6	35.5	0.66	1.1	3.1	1.30	2.00			
	22	7	38.5	0.72	1.2	3.1					
15	6	0	3.3	0.03	0.3	9.7	3.39	3.44			
	4	1	5.5	0.06	0.3	6.0	2.75	2.42			
	18	2	7.3	0.08	0.3	4.3	0.22	0.65			
	5	3	7.5	0.08	0.7	9.1	0.38	0.29			
	5	4	8.0	0.08	0.6	8.0	0.14	0.00			
	10	5	8.2	0.09	0.7	8.5	0.71	0.87			
	9	6	9.2	0.10	0.7	7.9	0.20	0.56			
	5	7	9.6	0.10	1.6	16.9					
16	7	0	4.3	0.05	1.0	22.0	1.52	1.26			
	27	1	6.3	0.07	0.4	5.9	1.93	2.16			
	11	2	8.0	0.09	0.5	6.0	0.61	0.63			
	10	3	8.5	0.09	0.4	4.8	0.55	0.00			
	8	4	8.0	0.09	0.5	6.0	0.75	1.04			
	8	5	9.0	0.10	0.8	8.7	0.12	0.26			
	3	6	9.2	0.10	1.0	10.8					
17	18	1	9.5	0.32	1.0	11.0	2.27	2.31			
	18	2	14.8	0.50	1.3	8.8	1.14	1.62			
	11	3	19.2	0.65	2.6	13.3	0.11	1.29			
	5	4	22.6	0.76	29.3	129.7	0.05	0.00			
	17	5	24.0	0.81	1.8	7.5	0.26	0.39			
	6	6	24.8	0.84	1.3	5.4	0.52	0.45			
	8	7	26.6	0.90	2.1	7.9	0.29	0.48			
	5	8	27.7	0.93	1.7	6.1					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
18	83	1	23.8	0.59	3.3	14.0	0.55	0.00			
	183	2	27.5	0.68	3.5	12.6	0.97	1.71			
	43	3	34.2	0.85	3.4	10.0	0.35	0.64			
	31	4	36.4	0.90	2.8	7.7	1.22	1.35			
	11	8	41.0	1.01	1.0	2.3	0.74	0.95			
	3	9	41.9	1.04	0.3	0.6					
	0	10									
	2	11	41.4	1.02	0.2	0.5					
19	59	1	23.4	0.56	2.8	11.8	0.61	0.00			
	174	2	27.0	0.64	3.2	11.7	0.82	1.70			
	46	3	32.8	0.78	3.9	11.9	0.48	0.90			
	15	4	36.3	0.86	3.4	9.3	0.72	0.77			
	9	5	39.8	0.95	1.5	3.8	0.10	0.00			
	8	6	39.5	0.94	1.6	4.0	0.24	0.13			
	10	7	40.4	0.96	2.3	5.6	0.00	0.00			
	8	8	40.4	0.96	2.2	5.4	0.34	0.28			
	4	9	41.2	0.98	0.2	0.4	0.44	1.18			
	4	10	41.7	0.99	1.0	2.3					
	1	11	41.5	0.99	0.0	0.0					
20	51	0	9.5	0.21	1.6	16.8	3.26	3.25			
	64	1	22.2	0.48	2.3	10.4	2.03	1.87			
	122	2	29.9	0.65	1.5	5.0	1.28	1.33			
	103	3	33.6	0.73	1.4	4.2	0.87	1.43			
	44	4	36.3	0.79	1.7	4.7	0.39	0.41			
	39	5	37.5	0.81	1.4	3.7	0.47	1.00			
	17	6	38.9	0.84	1.6	4.1	0.30	0.75			
	10	7	40.1	0.87	2.4	6.0	0.30	0.00			
	16	8	41.5	0.90	2.2	5.3	0.15	0.00			
	28	9	41.0	0.89	1.2	2.9	0.06	0.00			
	24	10	40.8	0.88	2.0	4.9	0.18	0.00			
	26	11	41.5	0.90	2.0	4.8	0.40	0.70			
	14	12	42.9	0.93	1.5	3.5	0.03	0.00			
	20	13	42.8	0.93	1.7	4.0	0.00	0.00			
	13	14	42.8	0.93	1.2	2.8	0.14	0.33			
	13	15	43.2	0.93	1.7	3.9	0.13	0.29			
	14	16	43.7	0.95	2.3	5.3	0.02	0.00			
	29	17	43.8	0.95	1.8	4.1	0.05	0.11			
	28	18	44.0	0.95	2.0	4.6	0.11	0.20			
	10	19	44.4	0.96	1.8	4.1	0.02	0.00			
	11	20	44.3	0.96	2.3	5.2	0.02	0.00			
	12	21	44.4	0.96	1.9	4.3	0.08	0.00			
	13	22	44.7	0.97	1.9	4.3	0.21	0.00			
	9	23	44.0	0.95	1.4	3.2	0.26	0.00			
	14	24	44.9	0.97	2.0	4.5	0.18	0.45			
	5	25	45.8	0.99	3.0	6.6	0.23	0.00			
	11	26	44.7	0.97	1.7	3.8	0.20	0.00			
	17	27	45.3	0.98	1.3	2.9	0.06	0.00			
	9	28	45.1	0.98	2.1	4.7	0.19	0.00			
	10	29	45.9	0.99	2.1	4.6	0.25	0.38			
	9	30	46.9	1.01	1.9	4.1	0.11	0.00			
	8	31	46.5	1.01	1.7	3.7	0.00	0.00			
	15	32	46.5	1.01	2.1	4.5	0.26	0.00			
	4	33	45.5	0.98	1.7	3.7	0.41	0.00			
	6	34	46.8	1.01	1.5	3.2	0.37	0.00			
	6	35	45.8	0.99	1.2	2.6	0.13	0.00			
	7	36	46.1	1.00	1.1	2.4	0.07	0.00			
	9	37	46.3	1.00	1.7	3.7	0.42	1.00			
	4	38	48.0	1.04	2.4	5.0	0.65	0.00			
	4	39	45.8	0.99	1.0	2.2	0.05	0.20			
	4	40	46.0	0.99	2.8	6.1	0.24	0.00			
	4	41	47.0	1.02	1.4	3.0	0.24	0.00			
	2	42	46.5	1.01	0.7	1.5	0.00	0.00			
	1	43	51.0	1.10	0.0	0.0	0.00	0.00			
	1	44	49.0	1.06	0.0	0.0	0.00	0.00			
	1	46	48.0	1.04	0.0	0.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
21	23	0	36.0	0.44	1.3	3.7	1.53	0.83			
	139	1	42.4	0.52	2.8	6.7	1.09	1.13			
	111	2	48.1	0.58	2.3	4.9	1.25	1.32			
	84	3	53.6	0.65	2.1	3.9	1.09	1.50			
	29	4	57.7	0.70	1.7	3.0	0.88	1.23			
	16	5	60.8	0.74	1.8	3.0					
22	234	1	50.6	0.39	4.6	9.1	1.39	1.63			
	122	2	63.4	0.49	4.6	7.3	0.78	0.52			
	183	3	70.6	0.55	4.6	6.5	0.65	1.22			
	115	4	78.3	0.61	7.3	9.3	0.47	0.62			
	61	5	83.1	0.64	3.0	3.6	0.60	1.37			
	18	6	87.2	0.68	3.8	4.4	0.29	0.55			
	11	7	89.3	0.69	3.5	3.9	0.77	0.71			
	14	8	95.8	0.74	5.0	5.2	0.63	1.00			
	5	9	100.8	0.78	2.9	2.9	0.47	0.28			
	6	10	103.5	0.80	2.9	2.8	0.64	0.45			
	9	11	108.2	0.84	4.4	4.1	0.67	0.64			
	7	12	112.7	0.87	2.3	2.0					
23	134	3	24.2	0.48	1.1	4.4	1.13	0.94	S	- 0.751	0.059
	224	4	26.6	0.53	1.1	4.1	1.28	1.48	N	0.253	- 0.315
	133	5	29.5	0.59	1.2	4.0	1.76	1.97	N	0.374	- 0.531
	54	6	33.1	0.66	0.9	2.7	1.37	1.36	O	0.289	- 0.731
	56	7	35.5	0.71	0.9	2.5	1.03	1.03	N	- 0.057	- 0.611
	60	8	37.4	0.75	0.9	2.5	1.18	1.41	N	0.003	- 0.841
	39	9	39.6	0.79	0.9	2.4			O	0.406	0.002
24	64	0	14.2	0.31	2.2	15.5	0.74	0.00			
	270	1	17.6	0.38	2.4	13.6	0.96	1.29			
	167	2	22.8	0.49	3.0	13.2	0.51	0.87			
	57	3	25.5	0.55	2.3	9.0	0.50	1.00			
	37	4	28.0	0.60	2.7	9.6	0.49	0.67			
	26	5	30.3	0.65	2.0	6.6	0.38	0.70			
	19	6	31.8	0.69	2.0	6.3	0.68	1.25			
	7	7	34.3	0.74	1.7	5.0	0.29	0.35			
	3	8	34.9	0.75	0.4	1.2					
25	24	0	9.3	0.22	3.6	38.7	0.71	0.28			
	44	1	14.5	0.35	3.7	25.5	0.64	0.00			
	130	2	19.1	0.46	3.5	18.3	0.82	0.80			
	145	3	25.2	0.60	3.9	15.5	0.44	0.08			
	195	4	28.5	0.68	3.6	12.6	0.83	0.86			
	139	5	33.3	0.80	2.2	6.6	0.36	0.45			
	137	6	35.0	0.84	2.5	7.1	0.27	0.60			
	92	7	36.5	0.88	3.0	8.2	0.29	0.47			
	18	8	37.9	0.91	1.8	4.8	0.37	0.00			
	26	9	39.5	0.95	2.5	6.3					
26	30	1	11.7	0.25	2.2	18.7	1.07	0.73			
	60	2	16.6	0.36	2.5	14.8	0.96	0.00			
	339	3	21.9	0.47	3.0	13.8	1.02	1.06			
	293	4	27.5	0.59	2.6	9.3	1.21	1.33			
	178	5	32.9	0.71	1.9	5.7	0.98	1.29			
	67	6	35.7	0.77	1.0	2.9	0.94	0.87			
	67	7	37.2	0.80	0.6	1.6	1.26	1.21			
	80	8	38.8	0.84	0.7	1.7	0.88	1.04			
	51	9	39.9	0.86	0.6	1.5	0.83	1.00			
	31	10	40.7	0.88	0.4	0.9	1.15	1.32			
	19	11	41.7	0.90	0.4	1.1	1.07	1.14			
	16	12	42.7	0.92	0.5	1.1	1.35	1.70			
	4	13	43.6	0.94	0.3	0.6	1.17	1.60			
	3	14	44.5	0.96	0.5	1.1	1.71	1.60			
	3	15	45.8	0.99	0.3	0.6					
	1	16	47.0	1.01	0.0	0.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
27	21	1	13.1	0.27	3.8	29.0	0.58	0.32			
	26	2	16.8	0.34	2.6	15.5	0.52	0.00			
	49	3	20.6	0.42	4.7	22.8	1.39	1.45			
	31	4	31.0	0.63	2.8	9.0	0.54	0.00			
	54	5	34.0	0.69	2.8	8.2	0.53	0.64			
	37	6	36.4	0.74	1.7	4.7	0.32	0.82			
	17	7	37.8	0.77	2.7	7.1	0.32	0.44			
	7	8	39.0	0.79	1.1	2.8	0.52	0.18			
	12	9	40.6	0.82	2.0	4.9	0.17	0.00			
	12	10	41.1	0.83	1.0	2.4	0.44	0.80			
	7	11	41.9	0.85	0.8	1.9	0.28	0.87			
	7	12	42.6	0.86	1.7	4.0					
28	22	2	24.7	0.49	1.5	5.9	0.42	0.21	O	0.320	- 0.775
	24	3	25.8	0.52	1.2	4.5	0.82	1.29	O	0.530	- 0.435
	13	4	27.9	0.56	1.4	4.9	1.07	1.16	O	- 0.064	- 0.842
	14	5	31.6	0.63	2.1	6.6	0.48	0.29	O	- 0.321	- 1.240
	14	6	33.2	0.66	1.2	3.6	1.35	1.09	O	1.126	1.060
	30	7	36.1	0.72	1.0	2.7	0.66	0.21	O	- 0.283	0.296
	57	8	37.6	0.75	1.2	3.2	0.75	1.24	N	0.039	- 0.474
	26	9	39.3	0.79	1.1	2.9	0.69	0.53	S	0.799	- 0.082
	33	10	40.9	0.82	1.2	2.9	0.59	0.77	S	0.501	- 0.291
	23	11	42.1	0.84	0.9	2.1	0.71	1.33	O	- 0.591	- 0.527
	8	12	43.4	0.87	0.9	2.1	0.59	0.44	O	- 0.999	- 1.039
	7	13	44.1	0.88	0.4	0.9	0.86	1.06	O	2.646	7.000
	8	14	45.4	0.91	1.1	2.3	0.39	0.00	O	- 0.045	- 0.940
	19	15	46.4	0.93	1.5	3.2			N	0.947	0.297
29	30	2	23.8	0.48	2.0	8.3	0.76	0.66	N	0.204	- 0.979
	32	3	26.3	0.53	1.4	5.4	0.62	1.21	S	0.081	- 0.542
	14	4	28.1	0.56	1.4	5.0	0.46	0.79	O	- 0.350	- 0.939
	5	5	29.2	0.58	1.1	3.8	0.00	0.00	O	1.293	2.917
30	5	7	37.0	0.74	0.7	1.9	0.45	0.00	O	0.000	2.000
	11	8	37.7	0.75	0.9	2.4	1.11	0.99	O	- 0.344	- 0.054
	14	9	39.9	0.80	1.1	2.7	0.60	0.65	O	- 0.714	- 0.524
	13	10	41.2	0.82	1.1	2.6	0.82	0.92	O	0.373	- 1.054
	7	11	42.6	0.85	0.5	1.3	1.55	2.06	O	- 0.374	- 2.800
	2	12	44.5	0.89	0.7	1.6	0.11	0.00	O	0.000	0.000
	6	13	44.3	0.89	0.8	1.9	0.03	0.00	O	2.449	6.000
	7	14	44.3	0.89	0.8	1.7			O	- 0.595	- 0.350
31	8	4	30.5	0.61	0.8	2.5	0.62	0.00	O	1.323	0.875
	17	5	31.7	0.63	1.1	3.5	0.13	0.27	O	0.501	- 0.313
	5	6	32.0	0.64	1.6	4.9	1.87	1.77	O	0.000	- 1.200
	6	7	37.0	0.74	1.1	3.0	0.37	0.00	O	- 1.370	2.500
	13	8	38.0	0.76	1.6	4.3	0.47	0.12	O	0.000	- 0.049
	17	9	39.3	0.79	1.1	2.8	0.53	0.63	O	0.280	- 1.184
	15	10	40.4	0.81	1.0	2.5	0.07	0.00	O	0.578	- 0.531
	19	11	40.6	0.81	1.6	3.9	0.55	0.89	N	0.506	- 1.232
	7	12	42.0	0.84	1.0	2.4	0.44	0.70	O	0.000	- 2.600
	5	13	42.8	0.86	0.8	2.0	0.62	1.08	O	0.512	- 0.612
	4	14	44.3	0.89	1.5	3.4	0.43	0.80	O	0.370	- 3.901
	3	15	45.6	0.91	1.5	3.4	0.09	0.00	O	- 0.935	0.000
	5	16	45.8	0.92	1.3	2.8			O	- 0.541	- 1.488
32	97	3	23.7	0.47	0.9	3.9	1.45	1.52	N	- 0.685	1.865
	98	4	27.0	0.54	1.3	4.9	1.04	1.44	S	- 0.894	0.608
	42	5	29.6	0.59	1.3	4.2	1.57	1.68	N	0.386	- 0.743
	26	6	33.4	0.67	1.1	3.4	1.07	1.15	O	- 0.577	- 0.323
	13	7	35.0	0.70	0.4	1.2			O	0.000	6.000
33	879	1	13.5	0.27	1.7	12.7	1.37	0.76	S	- 0.174	- 0.137
	4220	2	18.7	0.37	2.1	11.3	0.88	0.90	S	0.170	- 0.582
	3861	3	22.3	0.45	2.0	8.8	0.85	1.17	S	0.482	0.387
	2509	4	25.8	0.52	2.2	8.5	0.77	0.87	S	0.433	- 0.069
	1812	5	28.8	0.58	1.6	5.6	0.52	1.32	S	- 0.631	0.363
	924	6	30.9	0.62	2.5	7.9	0.51	0.98	S	0.076	- 0.601
	380	7	33.3	0.67	2.3	7.0			S	0.327	0.185

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
40	14	2	20.1	0.37	0.6	3.1	1.36	0.32	O	- 1.687	2.214
	98	3	23.7	0.43	2.0	8.3	0.96	1.12	S	0.836	- 0.449
	56	4	26.8	0.49	1.3	4.8	0.77	1.18	N	0.037	- 0.891
	31	5	28.7	0.52	1.2	4.3	0.88	1.38	N	- 0.347	- 0.529
	19	6	31.6	0.57	2.0	6.4	0.75	0.69	S	0.020	- 0.821
	18	7	34.2	0.62	1.5	4.2	1.21	0.76	N	0.154	- 1.468
	76	8	37.0	0.67	0.9	2.4	0.69	0.00	N	- 0.642	0.654
	198	9	38.4	0.70	1.1	2.8	0.72	0.92	N	- 0.194	- 0.188
	141	10	39.9	0.73	1.0	2.6	0.76	0.87	N	0.382	- 0.541
	131	11	41.6	0.76	1.2	2.9	0.67	0.67	S	0.464	- 1.000
	94	12	42.9	0.78	0.7	1.6	0.60	1.45	O	- 0.673	- 0.672
	23	13	43.9	0.80	1.0	2.3	0.54	0.40	O	- 0.289	- 1.108
	24	14	44.8	0.81	0.6	1.4	0.59	0.82	O	2.375	4.614
	24	15	45.8	0.83	1.1	2.4	0.43	0.37	O	0.374	- 1.044
	26	16	46.7	0.85	1.2	2.6	0.24	0.50	S	0.399	- 1.425
	18	17	47.4	0.86	1.6	3.3	0.85	1.21	N	0.308	- 0.797
	9	18	49.9	0.91	1.4	2.9			O	0.645	- 0.543
41	39	8	37.6	0.68	1.2	3.1	0.43	0.00	O	- 1.543	2.868
	72	9	38.5	0.70	1.1	3.0	0.55	0.00	N	- 0.528	0.173
	130	10	39.8	0.72	1.2	2.9	0.51	0.35	O	0.301	- 1.366
	159	11	41.0	0.75	1.2	3.0	0.29	0.58	O	0.079	- 1.562
	133	12	41.7	0.76	1.3	3.1	0.47	0.85	S	- 0.113	- 0.857
	90	13	42.9	0.78	1.2	2.7	0.42	0.17	O	0.115	- 1.449
	106	14	43.8	0.80	1.1	2.5	0.51	0.64	O	0.025	- 1.391
	85	15	44.9	0.82	1.0	2.2	0.49	0.82	O	0.392	- 0.801
	66	16	45.9	0.83	1.2	2.5	0.52	0.61	O	0.111	- 1.420
	63	17	47.2	0.86	1.3	2.8	0.32	0.69	N	0.293	- 0.975
	53	18	48.1	0.87	1.5	3.1			N	0.924	0.160
42	27	3	23.9	0.43	1.4	5.9	1.21	1.20	S	- 0.015	- 1.746
	25	4	27.1	0.49	1.2	4.4	0.77	0.42	O	0.006	- 1.545
	42	5	29.0	0.53	1.4	4.7	0.90	0.15	N	- 0.324	- 1.265
	151	6	31.7	0.58	1.6	5.0	0.58	0.95	S	0.640	- 0.829
	121	7	33.9	0.62	2.2	6.6	0.97	0.99	S	0.367	- 1.383
	83	8	37.2	0.68	1.1	3.0	0.80	0.53	O	- 0.100	- 1.406
	122	9	38.7	0.70	0.9	2.2	0.53	0.47	O	- 0.480	- 1.463
	139	10	39.7	0.72	0.9	2.2	0.41	0.71	O	- 0.295	- 1.560
	94	11	40.3	0.73	0.7	1.8	0.76	1.24	O	0.331	- 1.040
	60	12	41.7	0.76	1.1	2.6	0.25	0.09	O	0.416	- 1.105
	60	13	42.2	0.77	0.9	2.2	0.46	0.77	O	1.136	0.181
	38	14	42.9	0.78	0.6	1.5	0.92	1.41	O	1.404	0.905
	18	15	44.3	0.81	0.9	2.1	1.01	0.97	O	0.364	- 1.831
	15	16	45.9	0.83	0.6	1.4			O	- 0.547	- 0.385
43	47	2	18.0	0.38	1.5	8.3	2.23	1.87	S	- 0.145	0.396
	242	3	25.0	0.53	1.6	6.5	1.35	1.66	S	- 0.177	0.558
	93	4	29.2	0.62	1.5	5.1	1.38	1.34	N	- 0.389	0.239
	98	5	33.3	0.71	1.5	4.5	0.73	1.41	N	- 0.370	1.153
	28	6	35.4	0.75	1.4	3.9			N	0.676	1.342
44	205	2	18.4	0.39	1.2	6.5	2.38	1.92	S	- 0.142	1.144
	1644	3	25.1	0.53	1.6	6.4	1.34	1.68	S	- 0.127	0.226
	562	4	29.1	0.62	1.4	4.9	1.40	1.39	S	- 0.186	0.307
	528	5	33.2	0.71	1.5	4.4	0.76	1.38	S	- 0.522	1.640
	123	6	35.2	0.75	1.3	3.6			S	0.303	- 0.311
45	168	1	45.0	0.22	3.0	6.7	1.00	1.00			
	168	2	51.0	0.25	3.0	5.9	1.71	1.80			
	154	3	63.0	0.31	4.0	6.4	1.25	1.35			
	122	4	73.0	0.36	4.0	5.5	0.89	1.00			
	115	5	81.0	0.40	5.0	6.2	0.70	0.82			
	97	6	88.0	0.43	5.0	5.7	0.55	1.14			
	55	7	94.0	0.46	6.0	6.4	0.46	0.90			
	40	8	100.0	0.49	7.0	7.0	0.41	1.00			
	20	9	107.0	0.52	10.0	9.4	0.76	1.49			
	7	10	123.0	0.60	11.0	8.9	0.30	0.63			
	6	11	130.0	0.64	12.0	9.2	0.10	0.16			
	5	12	132.0	0.65	9.0	6.8	0.71	0.83			
	3	13	142.0	0.70	5.0	3.5	0.33	0.78			
	2	14	146.0	0.72	7.0	4.8	0.38	0.56			
	2	15	152.0	0.75	9.0	5.9	0.22	0.22			
	2	16	156.0	0.76	9.0	5.8					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
46	283	1	44.0	0.18	3.0	6.8	1.14	1.20			
	286	2	52.0	0.21	4.0	7.7	1.44	1.50			
	276	3	65.0	0.26	5.0	7.7	1.11	1.10			
	248	4	75.0	0.30	4.0	5.3	0.89	1.00			
	236	5	83.0	0.33	5.0	6.0	0.70	0.76			
	214	6	90.0	0.36	5.0	5.6	0.64	0.82			
	187	7	97.0	0.39	6.0	6.2	0.54	0.90			
	139	8	104.0	0.42	7.0	6.7	0.47	0.99			
	92	9	111.0	0.44	8.0	7.2	0.41	0.87			
	62	10	118.0	0.47	9.0	7.6	0.47	0.84			
	46	11	127.0	0.51	10.0	7.9	0.53	0.76			
	34	12	137.0	0.55	9.0	6.6	0.37	0.52			
	32	13	144.0	0.58	10.0	6.9	0.35	0.54			
	28	14	151.0	0.60	10.0	6.6	0.22	0.39			
	22	15	155.0	0.62	8.0	5.2	0.36	0.59			
	16	16	160.0	0.64	6.0	3.8	0.29	0.65			
	10	17	164.0	0.66	8.0	4.9	0.28	0.49			
	10	18	169.0	0.68	10.0	5.9	0.17	0.39			
	7	19	173.0	0.69	13.0	7.5	0.25	0.53			
	5	20	180.0	0.72	15.0	8.3	0.96	1.20			
	2	21	202.0	0.81	8.0	4.0					
47	4	1	17.0	0.20	2.0	11.8	4.07	3.60	O	2.000	4.000
	92	2	44.7	0.57	4.8	10.7	0.43	0.38	S	- 0.989	3.507
	106	3	49.3	0.63	5.9	12.0	0.57	1.29	S	1.127	1.542
	59	4	58.0	0.75	9.5	16.4	0.48	0.96	N	0.486	- 0.629
	15	5	67.2	0.86	9.7	14.4	0.24	0.39	N	0.234	- 0.915
	4	6	71.0	0.91	6.0	8.5	0.63	0.57	O	- 0.370	- 3.901
	4	7	78.0	1.00	5.2	6.6			O	0.000	- 1.200
48	18	3	22.9	0.46	2.2	9.4	2.16	2.23			
	13	4	31.6	0.64	1.9	5.9	1.78	1.56			
	31	5	37.2	0.75	1.3	3.4	1.18	2.11			
	6	6	41.3	0.83	2.3	5.5					
49	50	4	33.5	0.53	1.8	5.2	1.37	1.82			
	16	5	38.5	0.61	1.9	4.9					
50	9	2	18.8	0.47	2.4	12.8	1.09	0.29			
	53	3	23.8	0.60	2.2	9.2	0.82	0.27			
	133	4	27.5	0.69	2.3	8.4	0.70	0.70			
	133	5	30.7	0.77	2.3	7.5	0.61	0.70			
	114	6	33.4	0.84	2.1	6.4	0.30	0.56			
	84	7	34.6	0.87	1.8	5.3	0.28	0.44			
	74	8	35.6	0.89	1.7	4.8	0.11	0.23			
	43	9	36.0	0.90	2.0	5.5	0.22	0.51			
	41	10	37.0	0.93	2.6	6.9	0.16	0.27			
	19	11	37.7	0.94	1.7	4.6	0.26	0.69			
	10	12	38.9	0.97	2.8	7.3	0.00	0.00			
	12	13	38.9	0.97	1.0	2.7	0.12	0.58			
	4	14	39.5	0.99	3.8	9.6					
51	77	1	9.6	0.57	0.7	7.6	2.32	2.33	S	- 0.837	0.738
	96	2	12.9	0.76	0.7	5.4	0.53	0.87	S	- 1.302	4.161
	21	3	13.6	0.80	0.6	4.3	0.00	0.00	O	0.561	0.733
52	13	3	25.4	0.76	1.0	4.0	1.28	0.10	O	- 0.873	- 0.181
	424	4	27.8	0.83	0.9	3.1	0.83	0.80	S	- 0.468	0.189
	367	5	29.1	0.87	0.7	2.5	0.84	0.55	S	0.597	0.443
	577	6	30.5	0.91	0.9	3.1	0.43	0.11	N	0.029	- 0.134
	732	7	31.2	0.93	0.8	2.5	0.39	0.77	N	0.278	- 0.113
	230	8	31.8	0.95	0.9	2.7	0.41	0.70	N	0.222	0.593
	16	9	32.5	0.97	0.8	2.5			O	- 0.113	- 0.583
53	7	4	26.4	0.78	1.7	6.5	0.95	0.17	O	- 1.487	2.666
	82	5	28.9	0.85	0.9	3.2	0.65	0.43	N	- 0.887	1.068
	110	6	30.0	0.89	0.7	2.4	1.02	0.55	S	- 0.069	0.030
	257	7	31.4	0.92	0.6	1.9	0.56	0.00	S	0.134	- 0.386
	521	8	32.0	0.95	0.6	2.0	0.54	1.11	N	0.068	0.221
	76	9	32.8	0.97	0.7	2.1			N	0.184	0.429

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
54	43	3	23.5	0.67	0.9	4.0	0.94	0.65	N	0.105	- 0.852
	84	4	25.7	0.73	1.4	5.5	1.42	1.27	N	- 0.403	- 0.856
	117	5	29.2	0.83	1.0	3.5	0.89	0.78	N	- 0.121	0.963
	140	6	30.9	0.88	0.9	2.9	0.66	0.33	S	0.512	0.644
	196	7	31.9	0.91	0.7	2.2	0.38	0.00	S	0.543	1.394
	393	8	32.4	0.93	0.6	2.0	0.52	0.47	S	0.361	0.885
	423	9	33.1	0.95	0.7	2.0			S	0.076	0.691
55	81	3	17.4	0.87	0.8	4.6	0.86	1.38			
	16	4	18.6	0.93	0.6	3.2	1.13	1.17			
	17	5	20.4	1.02	1.0	4.9	0.00	0.00			
	21	6	20.4	1.02	0.9	4.4					
56	152	2	16.2	0.79	0.8	4.9	1.13	1.88			
	24	3	17.9	0.87	0.7	3.9	0.85	1.00			
	15	4	19.0	0.93	0.6	3.2	0.57	0.00			
	37	5	19.8	0.97	0.8	4.0					
57	75	2	15.8	0.70	0.9	5.7	1.06	0.78			
	138	3	17.7	0.78	0.9	5.1	0.44	0.78			
	32	4	18.5	0.82	0 9	4.9	0.53	0.33			
	36	5	19.4	0.86	0.8	4.1	0.63	1.13			
	18	6	20.4	0.90	0.8	3.9					
58	52	2	15.7	0.72	1.0	6.4	0.90	0.90			
	51	3	17.4	0.80	0.9	5.2	0.81	0.44			
	83	4	18.7	0.86	0.7	3.7	0.17	0.29			
	11	5	19.0	0.88	1.1	5.8	0.71	0.45			
	14	6	20.2	0.93	0.6	3.0					
59	96	2	16.2	0.68	0.9	5.6	0.75	1.22			
	30	3	17.4	0.73	0.7	4.0	0.75	0.71			
	35	4	18.6	0.78	0.9	4.8	0.59	0.78			
	27	5	19.6	0.82	0.8	4.1	0.38	0.63			
	18	6	20.2	0.85	0.8	4.0					
60	34	2	16.2	0.79	1.1	6.8	0.84	0.55			
	50	3	17.8	0.87	0.8	4.5	0.87	1.00			
	34	4	19.1	0.93	0.7	3.7	0.55	0.71			
	14	5	19.7	0.96	0.4	2.0	0.25	0.00			
	20	6	19.9	0.97	0.4	2.0					
61	34	2	16.5	0.74	0.7	4.2	0.80	1.14			
	23	3	17.7	0.79	0.8	4.5	0.92	0.63			
	42	4	18.8	0.84	0.4	2.1	0.44	1.00			
	31	5	19.2	0.86	0.5	2.6	1.00	1.00			
	23	6	20.1	0.90	0.4	2.0					
62	73	2	16.0	0.80	0.9	5.6	1.14	1.00			
	96	3	17.6	0.88	0.5	2.8	0.80	1.00			
	70	4	18.4	0.92	0.5	2.7	1.11	1.20			
	47	5	19.4	0.97	0.4	2.1	0.13	0.25			
	12	6	19.5	0.97	0.4	2.1					
63	96	2	16.4	0.73	0.6	3.7	1.00	1.00			
	105	3	17.5	0.77	0.5	2.9	1.25	1.40			
	66	4	18.5	0.82	0.3	1.6	0.33	0.67			
	19	5	18.8	0.83	0.6	3.2	1.00	1.17			
	12	6	19.8	0.88	0.4	2.0					
64	15	1	17.6	0.81	1.3	7.5	0.65	0.00	O	1.335	0.236
	183	2	19.0	0.88	0.9	4.7	0.41	0.67	N	0.075	0.218
	64	3	19.7	0.91	0.8	4.0	0.33	0.00	N	0.061	- 0.075
	123	4	20.2	0.94	0.8	3.8	0.35	0.79	N	0.504	0.719
	10	5	20.9	0.97	1.1	5.0	0.20	0.28	O	- 0.128	- 0.416
	6	6	21.3	0.98	0.9	4.4			O	0.000	- 1.200
65	35	0	12.9	0.60	2.0	15.5	1.54	1.29	N	0.587	- 0.834
	79	1	18.1	0.84	1.3	7.3	0.97	0.61	N	- 0.093	0.298
	147	2	20.6	0.95	1.3	6.5	0.32	0.60	N	0.369	0.807
	116	3	21.4	0.99	1.2	5.6	0.11	0.17	S	0.927	0.569
	111	4	21.7	1.01	1.4	6.6	0.53	1.18	S	1.109	0.997
	26	5	23.4	1.08	1.8	7.7	0.19	0.00	S	- 0.127	- 1.780
	2	6	22.8	1.05	1.8	7.8			O	0.000	0.000
66	32	1	15.8	0.73	1.8	11.2	1.12	0.56	N	0.461	- 0.669
	169	2	19.0	0.88	1.1	5.6	0.39	0.28	N	- 0.680	0.636
	173	3	19.8	0.92	1.0	4.8	0.35	0.63	N	0.231	0.097
	35	4	20.5	0.95	1.0	5.1	0.12	0.00	N	0.103	0.671
	80	5	20.7	0.96	1.0	4.7	0.43	0.91	N	0.075	- 0.865
	7	6	21.7	1.01	1.3	5.8			O	- 1.126	0.217

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
67	184	0	15.1	0.70	1.5	10.1	1.36	1.24	N	- 0.357	- 0.087
	249	1	18.6	0.86	1.0	5.5	0.61	1.06	N	- 0.401	0.510
	157	2	20.0	0.92	1.2	5.9	0.40	0.17	N	- 0.408	0.416
	192	3	20.9	0.97	1.2	5.8	0.21	0.41	S	0.616	0.246
	91	4	21.4	0.99	1.3	5.9	0.07	0.00	N	0.331	- 0.639
	139	5	21.6	1.00	1.2	5.3	0.22	0.35	N	0.346	0.112
	18	6	22.0	1.02	0.7	3.4	0.23	0.00	O	- 0.231	0.271
	7	7	21.6	1.00	1.2	5.8			O	0.141	- 2.095
68	343	1	15.6	0.72	2.8	17.8	0.91	1.01	S	0.001	- 1.125
	170	2	19.3	0.89	1.3	6.6	0.74	1.10	S	- 0.746	1.788
	81	3	20.9	0.97	0.9	4.1	0.22	0.35	N	- 0.845	0.889
	69	4	21.3	0.98	0.8	3.9	0.17	0.24	N	- 0.163	- 0.729
	17	5	21.6	1.00	0.9	3.9	0.09	0.00	O	- 0.120	- 0.874
	57	6	21.4	0.99	1.0	4.5	0.28	0.41	N	- 0.131	- 0.617
	11	7	21.9	1.01	0.7	3.3	0.02	0.00	O	- 0.438	0.187
	8	8	21.9	1.01	0.6	2.9			O	- 1.560	3.028
69	346	0	16.2	0.75	1.9	11.4	1.49	1.63	S	- 0.611	- 0.319
	166	1	20.6	0.95	1.1	5.3	0.42	0.64	S	- 1.060	1.684
	60	2	21.4	0.99	0.8	3.7	0.23	0.00	N	- 0.004	0.672
	69	3	21.8	1.01	0.8	3.5	0.27	0.13	N	0.601	0.655
	77	4	22.2	1.03	0.9	3.9	0.10	0.12	N	- 0.129	- 0.771
	69	5	22.4	1.04	1.0	4.3	0.12	0.00	N	0.284	- 0.552
	74	6	22.6	1.05	1.0	4.2	0.35	0.63	N	0.030	- 0.734
	8	7	23.3	1.08	0.9	3.8			O	- 0.820	1.851
70	186	0	13.7	0.57	1.0	7.2	0.95	0.80	N	0.006	- 0.289
	298	1	16.3	0.68	1.8	11.1	0.71	0.33	N	- 0.115	- 0.192
	505	2	18.7	0.78	1.5	8.0	0.83	1.34	N	0.133	- 0.108
	189	3	20.9	0.87	1.2	5.5	0.44	0.78	N	- 0.131	- 0.500
	83	4	21.9	0.91	1.0	4.8	0.29	0.48	S	- 0.571	0.074
	39	5	22.4	0.93	0.7	3.3	0.18	0.27	N	- 0.261	- 0.536
	17	6	22.7	0.94	0.7	3.2	0.07	0.00	O	0.209	- 0.378
	14	7	22.8	0.94	0.6	2.6	0.60	0.85	O	0.330	- 0.394
	6	8	23.3	0.97	0.4	1.6			O	- 0.313	- 0.104
71	15	0	14.0	0.62	0.7	4.9	1.17	0.00	O	0.018	- 0.397
	102	1	16.9	0.75	1.7	10.3	0.43	0.00	N	- 0.365	- 0.499
	144	2	18.1	0.80	1.2	6.6	0.65	0.83	N	0.346	0.175
	116	3	19.7	0.87	1.2	6.3	0.28	0.49	N	0.220	- 0.337
	69	4	20.4	0.90	1.3	6.3	0.69	0.86	N	- 0.106	- 0.599
	40	5	21.8	0.96	0.7	3.4	0.24	0.41	N	- 0.880	2.442
	22	6	22.1	0.98	0.7	3.2	0.11	0.00	O	- 0.455	1.159
	11	7	21.9	0.97	1.3	5.7			O	- 1.703	3.832
72	44	0	14.8	0.70	1.0	6.6	1.82	1.74	N	- 0.318	- 0.017
	55	1	17.9	0.85	0.8	4.3	0.59	0.26	N	- 0.599	0.130
	81	2	18.8	0.89	0.8	4.0	0.68	1.20	N	- 0.151	- 0.542
	20	3	19.8	0.93	0.7	3.6	0.56	0.98	O	- 1.126	0.996
	9	4	20.6	0.97	0.6	2.8			O	0.340	- 1.579
73	65	1	12.6	0.56	1.5	11.9	1.07	0.74	N	- 0.247	- 1.103
	139	2	15.2	0.68	0.9	5.9	0.98	1.12	N	- 0.232	0.162
	107	3	16.8	0.75	0.8	4.6	0.98	1.42	S	0.185	- 0.202
	45	4	18.3	0.82	0.7	3.9	0.86	1.26	S	- 0.590	0.072
	21	5	19.4	0.87	0.6	2.8			O	0.632	- 0.968
74	44	1	13.0	0.52	0.5	4.2	1.29	0.92	O	- 1.199	2.887
	95	2	14.4	0.57	0.6	4.0	1.80	2.07	N	- 0.626	2.679
	35	3	16.7	0.66	0.7	4.1	1.05	1.62	N	- 0.327	- 0.219
	8	4	17.9	0.71	0.5	2.8			O	- 0.862	0.841
75	50	2	18.8	0.84	1.4	7.4	0.06	0.00	N	0.170	- 0.690
	55	3	19.0	0.85	1.4	7.1			S	1.164	0.854
76	9	0	15.0	0.67	1.7	11.1	0.54	0.00	O	- 0.265	- 0.852
	32	1	16.7	0.74	1.5	8.8	0.58	0.00	N	0.040	0.020
	66	2	18.3	0.82	1.4	7.7	0.20	0.35	N	- 0.011	- 0.478
	59	3	18.9	0.84	1.4	7.3			N	- 0.316	- 0.161
77	71	1	16.4	0.73	1.2	7.3	0.35	0.00	N	0.538	2.818
	119	2	17.4	0.78	1.5	8.8	0.41	0.78	N	0.135	- 0.327
	71	3	18.7	0.83	1.6	8.4	0.38	0.64	N	- 0.357	- 0.546
	11	4	19.8	0.88	1.4	6.9			O	- 0.109	0.460
78	131	0	14.2	0.64	1.8	12.6	0.93	1.23	N	0.486	- 0.177
	78	1	17.8	0.79	2.0	11.1	0.35	0.56	N	- 0.381	0.205
	34	2	18.9	0.84	1.3	6.8			N	- 0.570	0.905

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
79	24	2	17.9	0.80	1.9	10.8	0.35	0.00	N	0.325	- 1.033
	59	3	19.1	0.85	1.3	6.9	0.08	0.15	N	0.391	0.018
	27	4	19.3	0.86	1.3	6.5			N	0.431	- 0.990
80	12	0	16.2	0.72	1.2	7.5	0.46	0.00	O	- 0.067	- 0.616
	60	1	17.2	0.77	1.0	5.8	1.10	1.49	N	0.151	- 0.162
	30	2	19.6	0.88	1.2	6.0	0.07	0.00	N	0.450	- 0.564
	45	3	19.5	0.87	0.8	4.1	0.01	0.00	N	0.453	0.076
	11	4	19.5	0.87	1.0	4.9			O	1.283	2.393
81	61	1	13.8	0.62	1.9	13.8	1.15	0.95	N	0.442	- 0.058
	94	2	17.5	0.78	1.3	7.3	0.64	1.02	N	0.169	- 0.271
	53	3	19.0	0.85	1.1	5.9	0.59	0.89	N	- 0.013	- 0.466
	15	4	20.1	0.90	0.7	3.2	0.38	0.62	O	0.651	- 0.265
	6	5	20.5	0.92	0.5	2.6			O	0.000	- 0.248
82	63	0	12.8	0.57	1.8	14.2	1.83	1.93	N	0.930	0.765
	30	1	18.2	0.81	1.2	6.3	0.46	0.87	N	0.178	- 0.140
	12	2	19.3	0.86	1.2	6.2	0.18	0.25	O	- 0.548	0.009
	7	3	19.7	0.88	1.0	5.0			O	- 1.418	2.522
83	48	0	13.8	0.57	1.4	10.3	1.20	0.63	N	0.860	0.274
	169	1	17.5	0.72	1.7	9.4	0.82	0.85	N	- 0.512	- 0.080
	129	2	19.8	0.81	1.1	5.5	0.78	1.19	N	0.329	- 0.077
	63	3	21.4	0.88	1.0	4.5	0.54	0.93	N	0.217	0.258
	32	4	22.3	0.92	0.8	3.7	0.22	0.36	N	0.000	- 0.138
	20	5	22.7	0.94	0.8	3.6	0.45	1.09	N	0.020	- 0.959
	11	6	23.6	0.97	1.2	5.1	0.13	0.00	O	0.181	- 0.616
	3	7	23.4	0.96	0.3	1.2			O	1.732	0.000
84	118	0	13.1	0.57	0.8	6.1	1.75	1.39	N	- 0.209	- 0.245
	361	1	16.9	0.74	1.4	8.3	0.84	1.08	S	- 0.678	1.748
	238	2	19.2	0.84	1.3	7.0	0.65	1.20	S	0.460	0.924
	54	3	20.8	0.91	1.2	5.9	0.48	1.06	N	0.240	- 0.522
	25	4	22.2	0.97	1.5	6.9	0.10	0.00	S	0.412	0.757
	9	5	21.9	0.96	1.4	6.3	0.16	0.22	O	- 0.650	- 0.223
	5	6	22.3	0.98	1.1	4.8			O	0.524	- 0.963
85	1239	0	12.0	0.59	1.1	9.2	1.10	1.09	S	- 0.271	- 0.556
	1034	1	14.0	0.69	0.7	4.9	1.06	1.17	N	- 0.086	- 0.365
	738	2	15.3	0.75	0.5	3.6	0.98	1.11	N	- 0.266	- 0.069
	611	3	16.3	0.80	0.6	3.4	0.80	1.08	S	- 0.053	- 0.018
	313	4	17.2	0.85	0.5	2.7	0.88	1.70	N	0.054	- 0.246
	87	5	18.0	0.89	0.5	2.7	0.49	1.04	N	- 0.137	- 0.923
	27	6	18.5	0.91	0.6	3.0			S	0.215	- 1.361
86	11	0	15.2	0.35	1.7	11.0	0.00	0.00	O	0.834	- 0.206
	2	1	19.5	0.45	0.0	0.0	0.00	0.00	O	0.000	0.000
	94	2	24.8	0.57	1.5	6.1	1.15	0.72	N	- 0.729	- 0.091
	238	3	29.2	0.67	2.3	7.7	1.03	0.62	S	- 0.691	0.046
	595	4	33.0	0.76	1.5	4.5	0.93	1.62	S	- 0.293	- 0.133
	141	5	35.5	0.82	1.2	3.4	0.97	1.51	S	- 1.035	2.284
	39	6	37.5	0.86	0.9	2.3			O	0.101	- 0.277
87	69	1	14.9	0.57	0.8	5.1	1.21	0.79	N	0.634	0.123
	188	2	17.9	0.69	1.7	9.6	0.78	1.23	N	- 0.242	- 0.686
	24	3	20.0	0.77	1.0	5.1	0.39	0.69	N	- 0.827	0.453
	9	4	20.8	0.80	1.0	4.7			O	1.731	3.169
88	39	0	6.2	0.20	1.8	28.4	1.10	0.96			
	48	0	9.7	0.32	1.4	14.5	0.60	0.78			
	46	0	11.7	0.38	1.9	16.4	1.00	0.89			
	46	0	14.7	0.48	1.1	7.5	0.63	1.09			
	29	1	16.2	0.53	1.3	8.0	0.56	1.01			
	21	1	18.0	0.59	1.9	10.6	0.64	0.21			
	39	1	19.9	0.65	1.1	5.3	0.75	0.47			
	61	1	21.6	0.71	1.2	5.6	0.91	1.15			
	34	1	23.7	0.77	1.1	4.6	0.67	1.48			
	11	2	25.4	0.83	1.5	5.8	0.57	0.75			
	11	2	27.4	0.89	2.1	7.5	0.25	0.00			
	14	2	28.2	0.92	1.2	4.3	0.23	0.50			
	7	3	28.9	0.94	1.9	6.4	0.29	0.00			
	19	3	29.7	0.97	0.9	3.1	0.47	0.54			
	18	4	30.6	1.00	1.0	3.2	0.52	1.01			
	6	5	31.7	1.03	1.1	3.5					
	1	6	32.1	1.05	0.0	0.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
89	35	1	11.3	0.74	0.7	6.1	1.61	0.88	N	0.377	0.703
	306	2	13.5	0.88	0.7	4.9	0.79	1.80	N	0.314	0.194
	54	3	14.7	0.96	0.9	5.9			N	1.005	0.982
90	38	2	20.3	0.78	0.8	3.8	1.15	1.04			
	58	3	22.3	0.86	1.0	4.4	0.81	0.83			
	53	4	23.7	0.92	0.8	3.2	0.39	0.66			
	38	5	24.3	0.94	0.8	3.2	0.27	0.52			
	14	6	24.7	0.95	0.7	3.0					
	119	2	19.3	0.75	1.2	6.1	0.94	0.86			
	155	3	21.6	0.83	1.3	5.9	0.72	0.63			
	157	4	23.1	0.89	0.8	3.5	0.53	0.86			
	102	5	23.9	0.92	0.7	3.0	0.46	0.85			
	51	6	24.6	0.95	0.8	3.4	0.29	0.48			
	10	7	25.1	0.97	0.9	3.6					
	77	3	21.4	0.83	1.3	5.8	0.67	0.88			
	52	4	22.9	0.88	1.0	4.4	0.30	0.00			
	90	5	23.5	0.91	1.0	4.3	0.44	0.70			
	49	6	24.3	0.94	0.8	3.4	0.31	0.48			
	25	7	24.8	0.96	0.8	3.1					
	165	4	22.8	0.88	0.7	2.9	0.56	1.19			
	39	5	23.7	0.92	0.9	3.9	0.25	0.00			
	49	6	24.2	0.93	1.1	4.5	0.00	0.00			
	11	7	24.2	0.93	0.8	3.4					
	112	5	23.3	0.90	0.6	2.4	0.62	1.27			
	24	6	24.1	0.93	0.8	3.1	0.23	0.40			
	23	7	24.5	0.95	1.0	4.0					
	18	2	19.6	0.76	1.5	7.8	1.11	1.05			
	17	3	22.3	0.86	0.9	4.1					
	48	6	24.0	0.93	0.8	3.4					
91	46	2	20.4	0.78	0.8	3.8	1.26	1.54			
	31	3	23.0	0.88	1.3	5.6	0.52	0.00			
	64	4	24.1	0.92	0.8	3.4	0.40	0.61			
	29	5	24.7	0.94	0.7	2.8	0.34	0.73			
	12	6	25.3	0.97	1.1	4.2					
	126	2	19.4	0.74	1.3	6.6	0.76	0.63			
	158	3	21.4	0.82	1.4	6.4	1.01	1.03			
	130	4	23.7	0.91	0.9	3.9	0.48	0.65			
	102	5	24.5	0.94	0.8	3.1	0.27	0.40			
	44	6	24.9	0.95	0.7	2.9	0.40	0.69			
	22	7	25.5	0.97	0.8	3.1					
	65	3	21.7	0.83	1.6	7.4	0.54	0.63			
	52	4	23.2	0.89	1.2	5.1	0.63	0.42			
	58	5	24.5	0.94	0.9	3.6	0.16	0.23			
	44	6	24.8	0.95	1.1	4.2	0.21	0.38			
	20	7	25.2	0.96	0.9	3.6					
	142	4	23.3	0.89	0.7	2.9	0.47	1.04			
	53	5	24.1	0.92	1.1	4.4	0.40	0.57			
	51	6	25.0	0.95	1.2	4.8	0.00	0.00			
	16	7	25.0	0.95	1.1	4.3					
	125	5	23.9	0.91	0.8	3.5	0.41	0.83			
	27	6	24.7	0.94	1.1	4.5	0.46	0.82			
	16	7	25.7	0.98	1.1	4.1					
	19	2	19.4	0.74	1.4	7.2	1.22	1.14			
	21	3	22.4	0.86	1.1	4.7	0.98	0.76			
	32	6	24.3	0.93	0.9	3.6					
92	12	5	25.3	0.98	0.9	3.5	0.14	0.00			
	24	6	25.1	0.97	0.5	2.1					
	44	2	19.0	0.73	1.4	7.1	1.39	1.41			
	30	3	21.7	0.84	0.6	2.8	0.47	1.00			
	17	4	22.4	0.87	0.9	4.0	1.73	1.69			
	18	6	25.4	0.98	0.8	3.3					
	18	7	25.4	0.98	0.6	2.3					
	32	3	21.2	0.82	1.3	6.3	0.73	0.45			
	47	4	22.7	0.88	0.7	3.1					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
93	33	6	25.8	0.99	0.7	2.7	3.32	0.00			
	35	2	19.6	0.75	1.2	6.0	1.17	1.02			
	47	3	21.9	0.84	0.8	3.6	0.64	1.28			
	18	4	23.0	0.88	1.0	4.1	1.49	1.68			
	10	7	25.8	0.99	0.9	3.6					
	37	3	22.0	0.84	1.4	6.2	0.86	1.25			
	10	5	23.8	0.91	0.7	3.1					
	45	4	23.2	0.89	0.7	3.1					
94	20	1	18.1	0.70	1.0	5.4	1.30	0.72			
	82	2	20.9	0.81	1.2	5.7					
	18	1	17.1	0.66	1.0	5.8	1.96	1.41			
	140	2	21.2	0.82	1.1	5.2	0.40	0.73			
	81	3	22.1	0.85	1.1	5.2	0.88	1.23			
	12	4	23.6	0.91	0.6	2.4					
	25	2	20.3	0.78	1.8	9.1	0.66	0.05			
	91	3	22.2	0.86	1.0	4.6	0.10	0.00			
	40	4	22.0	0.85	1.0	4.7		0.00			
	15	1	17.9	0.69	0.9	5.0	1.61	1.01			
	94	2	20.6	0.80	0.8	3.8	1.05	0.63			
	268	3	22.1	0.85	0.6	2.9	0.86	0.78			
	322	4	23.4	0.90	0.9	3.8	0.14	0.34			
	36	5	23.7	0.92	1.3	5.6					
	640	2	19.8	0.76	0.8	4.1	1.10	1.11			
	682	3	21.5	0.83	0.7	3.4	0.73	0.96			
	463	4	22.6	0.87	0.8	3.4	0.83	0.78			
	480	5	23.9	0.92	0.8	3.3	0.27	0.51			
	20	6	24.4	0.94	1.1	4.3					
	450	3	20.8	0.80	0.8	3.7	0.76	0.92			
	398	4	22.0	0.85	0.8	3.7	0.52	0.98			
	161	5	22.9	0.88	0.9	3.9	0.70	0.44			
	217	6	24.1	0.93	0.8	3.4					
	101	4	21.5	0.83	0.9	4.0	0.51	0.23			
	140	5	22.4	0.87	0.9	4.0	0.68	1.11			
	40	6	23.5	0.91	0.7	3.1	0.70	0.27			
	69	7	24.6	0.95	0.9	3.5					
	20	5	21.4	0.83	0.9	4.3	0.77	0.22			
	46	6	22.8	0.88	0.9	4.0	0.65	1.32			
	16	7	24.1	0.93	1.1	4.6	0.23	0.36			
	12	8	24.6	0.95	1.1	4.5					
95	26	1	18.3	0.70	0.9	4.7	1.54	1.28			
	65	2	21.2	0.81	1.0	4.8					
	30	1	17.5	0.67	1.1	6.1	1.71	1.23			
	173	2	21.2	0.81	1.1	5.2	0.56	0.82			
	110	3	22.3	0.85	0.9	3.9					
	26	2	20.9	0.80	1.5	6.9	0.58	0.00			
	94	3	22.4	0.86	1.1	5.1	0.05	0.09			
	40	4	22.5	0.86	1.0	4.6					
	111	2	21.0	0.80	0.7	3.4	1.01	0.56			
	306	3	22.5	0.86	0.8	3.4	0.86	0.78			
	343	4	23.9	0.91	0.9	3.6	0.18	0.35			
	42	5	24.3	0.93	1.3	5.5					
	546	2	20.0	0.76	0.9	4.5	1.07	0.90			
	664	3	21.8	0.83	0.8	3.7	0.81	1.00			
	496	4	23.1	0.88	0.8	3.5	0.84	0.88			
	416	5	24.4	0.93	0.8	3.1	0.23	0.53			
	35	6	24.9	0.95	1.4	5.7					
	412	3	21.1	0.81	0.8	3.7	0.82	0.91			
	338	4	22.4	0.86	0.8	3.6	0.66	1.11			
	187	5	23.5	0.90	0.9	3.6	0.80	0.82			
	186	6	24.8	0.95	0.8	3.2	0.39	0.64			
	21	7	25.4	0.97	0.8	3.0					
	85	4	21.9	0.84	1.1	5.1	0.59	0.27			
	116	5	23.1	0.88	0.9	3.9	0.53	0.99			
	53	6	24.1	0.92	1.0	4.0	0.45	0.31			
	63	7	25.0	0.95	1.0	4.1					
	24	5	22.6	0.86	1.2	5.4	0.46	0.00			
	40	6	23.6	0.90	1.0	4.1	0.27	0.41			
	17	7	24.1	0.92	0.9	3.7	0.85	0.90			
	14	8	25.4	0.97	0.6	2.5					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
96	37	1	17.3	0.67	0.9	5.4	1.35	1.40			
	40	2	20.6	0.79	1.5	7.4					
	210	1	17.1	0.66	1.1	6.4	1.86	2.00			
	129	2	20.9	0.80	0.9	4.5	1.16	1.38			
	65	3	22.9	0.88	0.8	3.5					
	292	1	16.4	0.63	1.0	6.2	1.75	1.49			
	693	2	20.2	0.78	1.2	5.7	0.72	1.21			
	156	3	21.7	0.84	0.9	4.2	0.76	1.52			
	47	4	23.2	0.89	1.1	4.5					
	73	1	16.3	0.63	1.0	6.1	1.31	1.10			
	139	2	19.7	0.76	1.6	8.1	0.71	0.50			
	172	3	21.7	0.84	1.2	5.6	0.00	0.00			
	76	4	21.7	0.84	1.1	4.8	0.72	1.24			
	22	5	23.1	0.89	0.9	3.9					
	213	1	17.6	0.68	0.8	4.7	1.78	1.71			
	322	2	20.4	0.79	0.8	3.7	0.97	0.80			
	481	3	21.9	0.84	0.8	3.6	0.71	1.39			
	231	4	23.2	0.89	1.1	4.5	0.04	0.00			
	33	5	23.1	0.89	1.5	6.3	0.29	0.41			
	13	6	23.8	0.92	1.0	4.2					
	1284	2	19.4	0.75	0.9	4.6	1.15	1.22			
	896	3	21.3	0.82	0.8	3.5	0.69	1.07			
	611	4	22.4	0.86	0.8	3.8	0.70	1.31			
	288	5	23.6	0.91	0.9	3.7	0.37	0.69			
	21	6	24.3	0.94	1.0	4.2					
	466	3	20.5	0.79	0.8	3.8	0.78	0.90			
	381	4	21.8	0.84	0.9	4.0	0.52	0.91			
	188	5	22.7	0.87	0.9	3.8	0.71	1.28			
	87	6	23.9	0.92	0.8	3.4					
	89	4	21.2	0.82	0.9	4.3	0.79	0.87			
	87	5	22.7	0.87	1.0	4.4	0.30	0.51			
	54	6	23.3	0.90	1.0	4.4	0.45	0.68			
	19	7	24.1	0.93	0.8	3.2					
	20	5	21.4	0.82	0.7	3.4	0.70	0.83			
	23	6	22.9	0.88	1.4	6.2	0.08	0.14			
	10	7	23.1	0.89	1.1	4.9					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
97	36	1	17.2	0.64	1.0	6.0	1.47	1.46			
	43	2	20.9	0.78	1.5	7.1					
	239	1	17.0	0.64	1.2	7.1	1.80	1.90			
	126	2	21.0	0.79	1.0	4.8	1.46	1.58			
	70	3	23.4	0.88	0.6	2.7					
	278	1	16.3	0.61	1.1	6.9	1.76	1.50			
	684	2	20.5	0.77	1.3	6.2	0.64	1.11			
	164	3	22.0	0.82	1.1	5.0	0.81	1.38			
	30	4	23.6	0.88	0.9	3.7					
	64	1	16.4	0.61	1.1	6.5	1.27	1.12			
	116	2	19.9	0.75	1.7	8.4	0.75	0.42			
	179	3	22.1	0.83	1.3	5.7	0.00	0.00			
	74	4	22.1	0.83	1.1	5.0	0.95	1.62			
	21	5	24.3	0.91	1.2	5.0					
	234	1	17.5	0.66	0.9	4.9	1.63	1.51			
	319	2	20.6	0.77	1.0	5.1	0.90	0.67			
	468	3	22.3	0.84	0.8	3.8	0.75	1.31			
	238	4	23.7	0.89	1.0	4.3	0.13	0.20			
	38	5	24.0	0.90	1.3	5.4					
	1203	2	19.6	0.73	1.0	5.0	1.14	1.24			
	788	3	21.6	0.81	0.8	3.7	0.72	1.01			
	556	4	22.8	0.85	0.9	3.8	0.84	1.26			
	248	5	24.2	0.91	0.8	3.3	0.46	0.88			
	37	6	25.0	0.94	1.0	3.8	0.40	0.52			
	10	7	25.6	0.96	0.6	2.2					
	437	3	20.7	0.78	1.0	4.6	0.79	0.94			
	319	4	22.2	0.83	1.0	4.3	0.51	0.95			
	179	5	23.2	0.87	1.0	4.3	0.81	1.30			
	76	6	24.7	0.93	0.9	3.5					
	75	4	21.8	0.82	0.9	4.3	0.75	0.75			
	74	5	23.2	0.87	1.0	4.1	0.26	0.42			
	44	6	23.7	0.89	1.0	4.0	0.68	0.95			
	25	7	24.8	0.93	0.7	2.7					
	16	5	22.2	0.83	1.0	4.5	0.67	0.20			
	32	6	23.3	0.87	0.7	2.8					
98	54	1	18.1	0.79	1.1	5.9	1.31	1.03			
	131	2	20.2	0.88	0.5	2.6					
	271	1	18.7	0.82	0.9	4.9	0.64	0.99			
	170	2	19.8	0.87	0.8	4.1	0.66	1.34			
	91	3	21.1	0.92	1.2	5.5					
	261	1	17.9	0.78	1.0	5.6	1.26	1.00			
	524	2	20.2	0.88	0.8	4.1	0.11	0.12			
	124	3	20.4	0.89	1.0	4.8	0.70	1.22			
	35	4	21.7	0.95	0.9	4.1					
	240	1	17.9	0.78	0.7	3.9	0.99	0.57			
	575	2	19.5	0.85	0.9	4.7	0.53	0.44			
	609	3	20.4	0.89	0.8	3.9	0.44	0.76			
	75	4	21.1	0.92	0.8	3.9	0.47	0.98			
	15	5	22.0	0.96	1.1	4.9					
	248	1	17.8	0.78	0.8	4.6	1.04	0.61			
	657	2	19.7	0.86	1.0	5.1	0.34	0.60			
	403	3	20.4	0.89	1.1	5.2	0.32	0.57			
	223	4	21.1	0.92	1.1	5.3	0.14	0.18			
	20	5	21.4	0.93	1.1	5.0					
	873	2	19.3	0.84	0.7	3.7	0.77	0.99			
	666	3	20.5	0.90	0.9	4.2	0.26	0.47			
	237	4	21.0	0.92	1.1	5.3	0.39	0.81			
	88	5	22.0	0.96	1.5	6.8					
	551	3	20.1	0.88	0.9	4.3	0.64	1.15			
	244	4	21.2	0.93	0.9	4.1	0.22	0.35			
	55	5	21.6	0.94	0.9	4.3	0.50	1.18			
	16	6	22.8	1.00	1.5	6.5					
	70	4	20.9	0.91	1.3	6.4	0.15	0.23			
	36	5	21.2	0.93	0.7	3.2	0.57	1.19			
	12	6	22.1	0.97	0.9	4.2					
	19	5	20.9	0.91	1.2	5.5					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
99	51	1	18.2	0.77	0.8	4.4	1.40	1.00			
	152	2	20.7	0.88	1.0	4.8					
	275	1	18.8	0.80	1.0	5.2	0.81	1.12			
	167	2	20.3	0.86	0.9	4.3	0.54	1.25			
	95	3	21.5	0.92	1.3	6.2	0.35	0.60			
	24	4	22.4	0.95	1.2	5.4					
	224	1	18.2	0.77	1.1	5.9	1.16	0.83			
	536	2	20.5	0.87	0.9	4.4	0.19	0.33			
	118	3	20.9	0.89	1.2	5.6					
	236	1	18.2	0.77	0.8	4.3	0.90	0.39			
	537	2	19.8	0.84	1.0	5.1	0.60	0.50			
	531	3	20.9	0.89	0.8	4.0	0.36	0.60			
	76	4	21.5	0.92	0.8	3.9	0.58	1.08			
	11	5	22.5	0.96	0.9	4.0					
	171	1	18.0	0.77	0.8	4.4	1.02	0.25			
	716	2	19.9	0.85	1.1	5.4	0.42	0.75			
	431	3	20.8	0.89	1.1	5.2	0.34	0.65			
	192	4	21.6	0.92	1.3	5.8	0.20	0.40			
	24	5	22.2	0.95	1.7	7.7					
	883	2	19.5	0.83	0.8	4.3	0.67	0.96			
	635	3	20.7	0.88	1.0	4.6	0.41	0.83			
	206	4	21.6	0.92	1.3	5.8	0.45	0.88			
	89	5	22.8	0.97	1.4	6.2					
	539	3	20.4	0.87	0.9	4.5	0.45	0.77			
	204	4	21.2	0.90	0.9	4.1	0.55	1.05			
	42	5	22.2	0.95	1.0	4.4	0.49	1.13			
	15	6	23.4	1.00	1.5	6.4					
	70	4	21.5	0.92	1.3	5.8	0.05	0.08			
	22	5	21.6	0.92	0.7	3.2	0.50	1.16			
	10	6	22.5	0.96	1.1	5.0					
	24	5	21.6	0.92	1.6	7.6	0.07	0.00			
	10	6	21.4	0.91	1.2	5.8					
100		0	14.2	0.64	1.1	8.0	1.64				
		1	17.8	0.80	1.1	6.1	0.96				
		2	19.9	0.89	1.0	5.2	0.56				
		3	21.0	0.94	1.0	4.7	0.33				
		4	21.6	0.97	0.9	4.3	0.19				
		5	21.9	0.98	0.9	4.1	0.11				
		6	22.1	0.99	0.9	3.8	0.07				
		7	22.2	0.99	0.8	3.6					
101	6	0	9.7	0.60	1.5	15.5	1.00	0.00			
	49	1	12.6	0.77	1.4	11.1	0.65	0.29			
	81	2	14.3	0.88	1.2	8.4	0.41	0.83			
	52	3	15.4	0.94	1.5	9.7	0.24	0.33			
	23	4	16.0	0.98	1.0	6.3	0.14	0.30			
	6	5	16.4	1.01	1.9	11.6	0.21	0.00			
	3	6	15.8	0.97	1.0	6.3					
102	13	2	17.8	0.62	1.3	7.3	1.17	0.62	N	- 0.876	1.075
	72	3	20.2	0.71	0.8	3.9	0.99	0.38	N	- 0.314	0.452
	220	4	22.2	0.78	1.2	5.6	1.08	0.89	N	- 0.015	- 0.664
	289	5	24.3	0.85	0.7	2.8	0.40	0.73	S	- 0.760	1.233
	72	6	24.8	0.87	0.7	2.7			S	- 0.121	- 0.816
103	14	2	17.8	0.63	0.9	5.2	1.28	0.55	O	1.415	2.859
	81	3	20.5	0.72	1.1	5.5	0.79	0.35	N	- 0.059	0.192
	166	4	22.3	0.78	1.3	5.7	1.26	1.02	S	0.175	- 0.337
	312	5	24.8	0.87	0.7	2.8	0.40	0.73	S	- 1.622	5.555
	97	6	25.3	0.89	0.6	2.5	0.69	1.46	N	0.415	- 0.108
	7	7	26.3	0.92	0.7	2.7			O	0.000	- 1.200
104	207	0	11.0	0.30	2.1	19.0	0.92	1.06	N	- 0.152	- 0.248
	130	1	14.3	0.39	1.5	10.7	1.12	1.38	N	- 0.161	- 0.077
	91	2	18.2	0.50	2.0	10.7	0.98	0.67	N	0.927	0.254
	168	3	21.9	0.60	1.8	8.3	0.78	0.88	S	- 0.578	- 0.128
	126	4	24.3	0.67	1.4	5.6	0.64	1.17	N	- 0.181	0.206
	59	5	26.0	0.71	1.2	4.6	0.44	0.58	N	- 0.502	0.820
	9	6	26.8	0.73	0.6	2.3			O	- 2.121	4.647

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
105	123	2	14.2	0.68	1.6	11.4	1.49	1.49	S	0.410	- 0.811
	75	3	17.4	0.84	0.5	3.0	1.51	2.31	N	0.058	- 0.125
	11	4	19.3	0.93	0.8	4.0	0.30	0.38	O	- 0.213	- 0.984
	9	5	19.7	0.95	0.6	2.9			O	0.176	- 1.171
106	93	1	7.3	0.55	0.7	8.9					
	15	1	7.3	0.55	0.8	10.7					
	210	1	7.4	0.56	0.6	8.7					
	339	1	8.0	0.61	0.8	9.8					
	8	1	7.3	0.55	0.5	6.6					
	54	1	5.9	0.45	0.9	15.9					
	28	1	6.4	0.48	1.2	18.4					
	13	1	5.3	0.40	0.8	14.2					
	30	1	6.8	0.52	1.1	15.7					
	142	1	8.0	0.61	1.1	13.9					
	109	2	10.0	0.76	0.8	8.1					
	351	2	9.2	0.70	0.9	9.2					
	461	2	10.0	0.76	0.9	9.4					
	323	2	9.6	0.73	1.0	10.5					
	736	2	9.5	0.72	1.4	14.6					
	262	2	9.4	0.71	1.3	13.4					
	143	2	9.1	0.69	0.9	9.9					
	495	2	9.5	0.72	1.3	13.3					
	60	2	8.5	0.64	0.8	9.4					
	192	2	9.8	0.74	1.2	12.6					
	259	3	11.1	0.84	0.9	7.7					
	178	3	11.1	0.84	0.8	7.4					
	1043	3	10.7	0.81	1.1	10.3					
	40	3	10.8	0.82	1.6	14.9					
	282	3	10.6	0.80	1.7	15.9					
	535	3	11.4	0.86	1.6	13.6					
	133	3	11.1	0.84	1.4	12.4					
	147	3	11.3	0.86	1.5	12.9					
	100	3	10.4	0.79	0.8	7.6					
	54	3	11.6	0.88	1.6	13.6					
	49	4	12.4	0.94	1.2	9.4					
	220	4	12.8	0.97	1.4	10.6					
	173	4	11.7	0.89	1.6	13.6					
	48	4	11.0	0.83	1.2	11.0					
	128	4	10.3	0.78	1.5	14.3					
	57	4	11.4	0.86	1.7	14.9					
	51	4	12.2	0.92	1.6	12.8					
	39	4	12.5	0.95	1.9	15.0					
	16	4	13.0	0.98	1.4	11.0					
	8	5	13.1	0.99	1.9	14.4					
	11	5	14.7	1.11	0.7	4.6					
	250	5	12.6	0.95	1.8	14.0					
	9	5	11.8	0.89	2.0	16.6					
	6[illegible]	5	11.6	0.88	1.1	9.5					
	6	5	11.6	0.88	1.6	13.7					
	9	5	11.4	0.86	1.8	16.1					
116	11	1	8.3	0.75	0.5	5.8	0.43	0.42			
	10	2	8.7	0.79	0.5	5.3	0.70	0.43			
	14	3	9.3	0.85	0.5	5.2	0.14	0.21			
	9	4	9.5	0.86	0.7	7.6	0.36	0.28			
	6	5	9.8	0.89	0.3	2.6					
	1	6	10.0	0.91	0.0	0.0					
117	15	1	8.8	0.71	0.4	4.5	1.02	1.03			
	24	2	10.1	0.82	1.0	9.4	0.37	0.84			
	21	3	11.1	0.90	1.6	14.0	0.07	0.06			
	17	4	11.3	0.91	1.1	9.3	0.29	0.57			
	5	5	11.9	0.96	1.1	9.2	0.94	1.19			
	4	6	14.6	1.18	1.8	12.1					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
118	4	2	33.6	0.44	3.9	11.6	1.17	0.72			
	11	3	44.5	0.59	5.4	12.1	0.56	1.07			
	6	4	50.4	0.66	5.1	10.1	0.27	0.00			
	14	5	52.4	0.69	2.4	4.6	0.43	0.71			
	14	6	55.0	0.72	3.7	6.7	0.27	0.51			
	8	7	56.9	0.75	3.3	5.8	0.31	0.48			
	5	8	58.5	0.77	1.9	3.3					
119	7	2	33.9	0.56	2.0	5.9	1.96	2.16			
	4	3	42.7	0.71	2.5	5.9	0.67	0.44			
	5	4	45.7	0.76	2.0	4.3	0.54	0.20			
	8	5	48.4	0.80	3.1	6.3	0.16	0.39			
	4	6	49.6	0.82	4.6	9.3	0.33	0.09			
	4	7	52.0	0.86	2.7	5.1					
120	392	0	7.5	0.29	1.1	14.8	0.56	1.27	S	0.449	- 0.056
	182	1	9.0	0.34	1.6	17.7	1.82	1.76	S	0.580	0.025
	278	2	16.3	0.62	2.5	15.0	0.57	0.25	S	- 0.554	- 0.194
	397	3	18.7	0.71	1.6	8.8	0.40	0.73	N	- 0.164	- 0.457
	127	4	19.9	0.76	1.4	7.2	0.26	0.42	N	- 0.314	- 0.538
	18	5	20.5	0.78	1.0	4.9			O	- 0.893	0.893
121	7	1	9.5	0.74	0.2	2.6	3.62	3.29			
	13	2	11.0	0.86	0.2	1.5	2.28	2.37			
	7	3	11.8	0.92	0.2	1.6					
122	248	0	9.6	0.51	0.7	7.1	0.25	0.00			
	854	1	9.9	0.53	0.6	6.1	0.89	1.83			
	205	2	11.4	0.61	1.1	9.5	1.35	2.50			
	10	3	14.6	0.77	1.3	8.7					
123	283	0	8.9	0.47	0.6	7.1	0.36	0.00			
	910	1	9.5	0.50	1.2	12.1	1.14	1.04			
	1054	2	11.8	0.63	0.9	7.4	0.56	1.03			
	507	3	12.8	0.68	0.9	7.3	1.40	1.72			
	128	4	14.8	0.79	0.5	3.4					
124	18	1	10.7	0.57	0.9	8.4	0.98	0.00			
	146	2	12.4	0.66	0.8	6.7	0.40	0.60			
	81	3	13.0	0.69	0.7	5.2					
125	291	0	10.0	0.50	0.6	6.3	0.13	0.00			
	1556	1	10.1	0.51	0.7	6.9	0.83	1.43			
	705	2	11.5	0.58	0.9	8.0	1.49	2.50			
	31	3	13.9	0.70	0.7	5.0					
126	371	0	8.8	0.44	0.8	8.9	0.47	0.00			
	949	1	9.8	0.49	1.3	12.8	0.95	0.88			
	951	2	11.8	0.60	0.9	7.7	0.68	0.99			
	681	3	13.1	0.66	1.0	7.6	1.14	1.62			
	128	4	14.8	0.75	0.5	3.4					
127	43	1	11.3	0.57	1.5	12.8	0.52	0.00			
	213	2	12.6	0.64	1.1	8.5	0.35	0.56			
	146	3	13.3	0.67	0.9	7.1	0.98	1.49			
	14	4	14.8	0.75	0.6	4.0					
128	57	1	6.3	0.52	0.7	10.7	0.68	0.00	S	1.234	2.750
	150	2	7.3	0.60	0.8	10.5	0.83	1.32	N	0.444	0.263
	89	3	8.7	0.72	1.0	11.8	0.64	0.97	N	- 0.218	- 0.958
	55	4	10.0	0.83	1.0	9.5	0.35	0.53	S	- 0.641	- 0.322
	23	5	10.6	0.87	0.7	6.5			N	- 0.699	- 0.808
129	1064	0	9.3	0.76	1.5	15.5	0.88	1.03	S	- 0.164	- 0.353
	549	1	11.3	0.92	0.8	6.8	0.27	0.39	N	- 0.250	- 0.377
	438	2	11.7	0.96	0.7	5.9	0.41	0.72	N	- 0.082	- 0.447
	58	3	12.2	1.00	0.6	5.2			N	- 0.466	- 0.160
130	462	0	9.1	0.59	0.9	9.7	0.97	1.37	N	0.012	- 0.639
	153	1	10.4	0.68	0.6	5.5	1.19	1.24	N	0.081	- 0.289
	102	2	11.6	0.76	0.4	3.8	1.16	1.58	N	0.004	- 0.192
	24	3	12.4	0.81	0.3	2.0			O	0.551	- 1.859
131	68	0	7.3	0.42	1.0	13.9	1.86	1.27			
	446	1	11.9	0.68	1.4	12.0	0.38	0.28			
	473	2	12.9	0.73	1.4	10.6	0.60	1.24			
	97	3	14.7	0.83	1.5	10.3	0.82	1.26			
	31	4	16.7	0.95	0.9	5.6					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
132	60	1	13.1	0.53	1.7	12.7	0.82	0.24	S	- 1.002	- 0.080
	196	2	15.4	0.62	1.1	7.4	0.55	1.15	S	- 0.582	1.637
	74	3	16.7	0.68	1.4	8.1			N	0.278	- 1.770
133	54	1	13.3	0.54	1.7	12.8	1.04	0.53	S	- 0.861	- 0.183
	210	2	16.3	0.66	1.2	7.2	0.50	1.02	N	- 0.106	0.222
	111	3	17.6	0.71	1.3	7.5			N	- 0.595	0.038
134	248	1	11.0	0.66	0.7	6.2	0.78	0.88	N	- 0.355	0.365
	232	2	12.0	0.73	0.7	5.9	0.77	1.12	N	0.283	- 0.075
	126	3	13.1	0.79	0.7	4.9	0.75	1.39	N	- 0.084	- 0.139
	48	4	14.0	0.84	0.6	4.3	0.90	1.34	N	- 0.075	- 0.461
	20	5	15.1	0.91	0.6	3.9			N	- 0.453	- 0.489
135	19	0	10.2	0.69	1.3	12.8	0.68	0.00	N	0.342	- 0.751
	88	1	11.7	0.79	0.9	8.1	0.27	0.00	N	0.000	0.628
	305	2	12.2	0.83	0.8	6.5	0.46	1.01	S	0.211	0.486
	158	3	13.0	0.88	1.0	7.7	0.42	0.80	N	0.169	- 0.372
	55	4	13.8	0.94	1.0	6.9	0.15	0.21	N	- 0.752	0.247
	9	5	14.1	0.96	1.0	6.8			O	- 0.824	1.652
136	164	0	10.2	0.67	1.0	9.6	0.82	0.10	N	0.358	- 0.240
	563	1	11.7	0.77	0.9	7.3	0.41	0.00	N	0.005	1.036
	991	2	12.4	0.82	0.9	7.5	0.43	0.86	S	0.291	0.447
	646	3	13.2	0.88	1.0	7.5	0.45	0.81	S	0.484	0.559
	204	4	14 1	0.94	1.0	7.1	0.09	0.10	S	0.117	- 0.689
	36	5	14.3	0.95	1.2	8.5			N	- 0.493	- 0.254
137	32	1	12.0	0.76	1.1	8.7	0.39	0.00	N	0.721	- 0.287
	115	2	12.8	0.81	1.0	7.8	0.21	0.20	N	0.275	- 0.340
	118	3	13.2	0.84	1.0	7.8	0.30	0.67	S	0.834	0.933
	19	4	14.0	0.89	1.3	9.6			N	0.107	- 1.248
138	38	1	13.3	0.83	1.0	7.4	0.32	0.00	N	0.825	0.788
	48	2	13.9	0.87	0.9	6.7	0.46	0.86	N	0.150	- 0.016
	18	3	14.8	0.92	1.0	6.5			N	- 0.550	- 0.600
139	12	1	12.9	0.86	0.9	7.2	0.20	0.00	O	0.195	0.918
	22	2	13.3	0.89	1.1	7.9	0.68	0.38	N	0.563	0.115
	34	3	14.7	0.98	1.0	6.6	0.01	0.00	N	- 0.253	0.661
	27	4	14.7	0.98	0.9	5.9	0.12	0.12	N	- 0.293	- 0.399
	9	5	14.8	0.99	0.4	2.6			O	1.534	2.654
140	66	1	12.6	0.77	1.0	8.0	0.42	0.00	N	0.092	0.407
	158	2	13.5	0.82	0.9	6.9	0.34	0.00	N	0.213	- 0.179
	311	3	14.1	0.86	0.9	6.5	0.27	0.43	S	0.519	0.399
	171	4	14.6	0.89	0.8	5.7	0.25	0.36	N	- 0.166	0.519
	52	5	15.0	0.91	0.7	4.8			N	0.320	1.221
141	18	0	11.5	0.68	0.8	6.9	0.39	0.00	N	0.210	- 0.790
	81	1	12.2	0.72	1.1	8.7	0.67	0.38	N	- 0.939	0.467
	117	2	13.4	0.79	0.7	5.3	0.45	0.14	S	- 0.164	- 0.487
	148	3	14.0	0.82	0.7	4.9	0.53	0.87	N	- 0.015	0.158
	115	4	14.8	0.87	0.8	5.0	0.37	0.54	S	0.426	0.479
	55	5	15.3	0.90	0.6	4.0			N	0.164	- 0.535
142	531	1	11.1	0.72	0.9	7.9	0.73	0.00	N	0.096	- 0.332
	1632	2	12.7	0.82	1.3	10.4	0.67	0.53	S	0.096	- 0.396
	1648	3	14.3	0.92	1.0	6.8	0.34	0.51	S	- 0.337	- 0.147
	334	4	14.8	0.96	0.7	4.9	0.08	0.14	N	- 0.395	0.235
	37	5	14.9	0.96	0.7	4.8			N	- 0.676	0.194
143	131	1	9.8	0.52	1.6	15.8	1.62	1.75	N	0.208	- 1.020
	54	2	13.6	0.71	0.8	5.7	1.24	1.44	N	0.165	- 0.195
	39	3	15.7	0.83	1.0	6.1	0.68	0.93	N	0.162	- 0.886
	24	4	16.9	0.89	0.7	4.4	0.47	0.67	N	- 0.141	- 0.774
	16	5	17.4	0.92	0.5	2.9			O	- 0.571	- 0.592
144	597	1	11.0	0.58	2.0	18.4	0.70	0.79	S	- 0.589	- 0.731
	163	2	12.6	0.66	0.3	2.5	0.98	0.31	S	0.146	1.184
	493	3	13.3	0.70	0.4	2.8	2.15	3.01	N	- 0.829	- 0.144
	73	4	16.1	0.85	1.0	5.9	0.43	0.31	N	0.226	- 0.115
	63	5	16.8	0.88	0.6	3.5			N	0.084	- 1.222
145	108	1	11.7	0.61	3.5	30.1	0.21	0.23	N	0.319	- 0.457
	4	2	12.5	0.66	0.4	3.3	1.27	0.74	N	0.123	- 0.464
	12	3	14.0	0.74	0.8	5.5	1.21	0.39	N	- 0.224	0.117
	65	4	16.0	0.84	0.9	5.6	0.62	0.56	N	0.092	- 0.326
	60	5	17.0	0.89	0.7	4.1			N	0.221	0.879

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
146	284	1	9.9	0.52	1.0	9.9	1.94	2.76	S	0.007	0.553
	14	2	13.7	0.72	1.0	7.2	1.72	1.01	O	- 0.014	- 0.471
	351	3	16.5	0.87	0.7	3.9	0.36	0.00	S	- 0.812	1.805
	469	4	16.9	0.89	0.5	2.8	0.12	0.21	S	0.274	1.027
	212	5	17.1	0.90	0.5	2.8			N	0.642	0.066
147	19	2	54.2	0.48	6.1	11.2	0.35	0.00	N	- 0.632	1.153
	379	3	58.2	0.51	5.6	9.7	0.61	1.40	N	0.416	0.330
	151	4	66.2	0.58	7.4	11.2	0.66	1.14	N	0.262	- 0.051
	37	5	74.6	0.66	5.4	7.3	0.11	0.22	N	0.184	- 0.900
	12	6	75.8	0.67	5.3	7.0			O	0.061	- 1.064
148		2	43.0	0.39	5.2	12.1					
		2	45.1	0.41	5.9	13.1					
		2	48.5	0.44	5.8	12.0					
		2	53.7	0.48	6.7	12.5					
		3	60.4	0.54	7.2	11.9					
		3	63.3	0.57	6.0	9.5					
		3	66.7	0.60	5.5	8.3					
		3	71.0	0.64	6.0	8.5					
		4	76.2	0.69	6.5	8.5					
		4	77.2	0.70	6.0	7.8					
		4	79.3	0.71	5.6	7.1					
		4	80.7	0.73	9.5	11.8					
		5	84.5	0.76	7.0	8.3					
		5	85.4	0.77	7.2	8.4					
		5	86.9	0.78	7.5	8.6					
		5	89.7	0.81	4.2	4.7					
		6	92.2	0.83	6.3	6.8					
		6	92.6	0.83	7.5	8.1					
		6	93.1	0.84	6.9	7.4					
		6	93.9	0.85	5.5	5.9					
		7	95.9	0.86	7.8	8.1					
		7	98.4	0.89	8.0	8.1					
		7	100.9	0.91	5.0	5.0					
		7	101.3	0.91	6.7	6.6					
149		2	38.4	0.32	5.2	13.5					
		2	40.2	0.34	6.1	15.2					
		2	42.9	0.36	5.7	13.3					
		2	47.5	0.40	6.4	13.5					
		3	52.4	0.44	6.2	11.8					
		3	57.5	0.48	9.4	16.4					
		3	60.5	0.51	7.0	11.6					
		3	63.6	0.53	9.7	15.3					
		4	68.4	0.57	8.0	11.7					
		4	72.9	0.61	7.7	10.6					
		4	76.3	0.64	7.0	9.2					
		4	78.8	0.66	6.7	8.5					
		5	80.9	0.68	10.4	12.9					
		5	82.8	0.70	8.9	10.8					
		5	87.1	0.73	5.6	6.4					
		5	90.1	0.76	8.2	9.1					
		6	91.0	0.76	7.4	8.1					
		6	92.6	0.78	7.4	8.0					
		6	93.4	0.78	7.2	7.7					
		6	94.6	0.79	7.5	7.9					
		7	95.6	0.80	7.9	8.3					
		7	98.4	0.33	3.4	3.5					
		7	101.5	0.85	6.0	5.9					
		7	101.9	0.86	6.3	6.2					
150	136	2	47.2	0.32	5.7	12.1	1.36	1.99	N	- 0.096	- 0.113
	30	3	64.3	0.43	6.9	10.7	0.70	0.26	N	- 0.299	- 0.295
	55	4	74.3	0.50	7.5	10.1	0.20	0.39	N	- 0.355	0.901
	4	5	77.3	0.52	7.3	9.4	0.88	0.26	O	0.049	- 5.530
	12	6	90.1	0.61	7.2	8.0	0.45	0.46	O	- 0.613	- 0.040
	12	7	96.6	0.65	7.3	7.5					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
151	19	0	9.2	0.06	2.3	25.0	3.53	3.51	N	1.210	1.163
	33	1	36.0	0.24	5.3	14.7	1.58	1.18	N	- 0.037	0.877
	112	2	54.6	0.37	6.5	11.9	1.21	2.03	N	- 0.420	- 0.245
	11	3	67.9	0.46	4.5	6.6	0.52	0.72	O	0.145	- 0.931
	16	4	76.9	0.52	13.0	16.9			O	- 0.709	- 0.066
152	191	1	22.4	0.15	4.3	19.2					
	223	2	35.0	0.24	4.4	12.7					
	65	2	42.9	0.29	3.5	8.2					
	692	2	44.1	0.30	4.2	9.4					
	196	3	52.0	0.35	4.8	9.3					
	136	3	56.9	0.38	4.7	8.2					
	467	3	58.0	0.39	5.3	9.1					
	79	4	63.3	0.43	4.9	7.8					
	30	4	66.9	0.45	6.6	9.9					
	269	4	66.5	0.45	5.9	8.9					
	68	5	70.2	0.47	6.6	9.5					
	13	5	75.3	0.51	6.3	8.3					
	138	5	74.9	0.51	7.2	9.6					
	22	6	78.7	0.53	8.7	11.1					
	37	6	83.7	0.56	6.7	8.0					
	75	6	79.8	0.54	7.9	9.9					
	5	7	84.8	0.57	7.4	8.7					
	5	7	95.4	0.64	7.9	8.3					
	59	7	86.9	0.59	8.3	9.6					
	20	8	91.4	0.62	7.8	8.5					
	41	8	93.2	0.63	8.0	8.6					
	20	9	98.1	0.66	8.8	8.9					
	24	9	103.1	0.70	8.3	8.0					
	16	10	104.6	0.71	8.6	8.2					
	7	11	117.3	0.79	5.0	4.3					
	6	12	122.1	0.82	5.9	4.8					
	5	14	128.4	0.87	7.7	6.0					
	2	15	131.5	0.89	4.5	3.4					
153	39	1	14.9	0.10	3.6	24.2					
	113	2	23.1	0.16	4.9	21.3					
	106	2	26.9	0.18	4.1	15.2					
	159	3	37.2	0.25	7.2	19.3					
	222	3	39.6	0.27	7.0	17.6					
	84	4	54.5	0.37	8.6	15.7					
	85	4	57.9	0.40	7.9	13.6					
	60	5	68.1	0.46	7.8	11.5					
	49	5	68.0	0.46	9.2	13.5					
	46	6	70.4	0.48	11.1	15.8					
	37	6	76.1	0.52	8.8	11.6					
	31	7	78.9	0.54	7.9	10.1					
	44	7	78.2	0.53	10.8	13.9					
	32	8	83.3	0.57	13.1	15.7					
	36	8	86.8	0.59	8.0	9.3					
	19	9	93.6	0.64	9.6	10.3					
	34	9	94.2	0.64	9.4	10.0					
	14	10	97.3	0.66	9.2	9.5					
	20	10	98.0	0.67	9.8	10.0					
	7	11	100.4	0.69	10.9	10.9					
	14	11	102.5	0.70	5.3	5.2					
	12	12	107.5	0.73	7.2	6.7					
	8	13	113.8	0.78	4.8	4.2					
154	291	2	44.2	0.58	4.1	9.3	1.25	2.30	N	0.077	- 0.631
	20	3	54.0	0.71	3.7	6.9	0.79	0.00	N	0.234	- 1.153
	178	4	60.0	0.79	3.9	6.5			N	0.512	0.028
155	60	1	19.5	0.31	3.9	19.9	1.42	1.53	N	0.147	- 0.778
	37	2	29.3	0.47	3.1	10.4	1.04	1.21	O	- 0.083	- 0.617
	32	3	36.8	0.59	4.2	11.5	0.69	0.54	N	- 0.103	- 0.665
	37	4	42.3	0.68	3.6	8.6	1.12	1.21	N	0.162	- 0.932
	17	5	48.1	0.77	1.5	3.2	0.97	2.07	O	- 0.130	- 2.267
	3	6	52.5	0.84	3.0	5.7	0.38	0.00	O	0.000	0.000
	4	7	54.8	0.88	2.9	5.2			O	0.855	- 1.289

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
156	177	1	16.0	0.24	5.0	31.5	1.37	1.15	S	- 0.181	- 1.218
	319	2	27.7	0.42	3.5	12.7	0.70	0.91	S	0.588	0.344
	234	3	32.5	0.50	3.4	10.4	0.24	0.44	N	0.498	0.483
	80	4	34.1	0.52	3.2	9.4	0.33	0.81	N	0.727	1.122
	59	5	36.7	0.56	4.8	13.0			S	0.656	- 0.812
157	82	1	15.8	0.24	3.4	21.3	1.43	1.04	N	0.032	- 0.763
	261	2	25.0	0.38	3.1	12.2	1.18	1.54	S	0.947	0.983
	126	3	32.9	0.50	3.6	11.0	0.60	1.39	N	0.162	- 0.173
	26	4	38.0	0.58	4.9	12.8	0.13	0.31	N	0.680	0.102
	11	5	39.5	0.60	7.0	17.7			O	0.520	- 0.884
158	60	0	6.4	0.10	3.0	46.4	3.53	3.40	S	3.991	23.150
	143	1	25.7	0.39	2.5	9.7	0.33	0.08	N	- 0.350	0.411
	190	2	27.6	0.42	3.5	12.6	0.80	1.70	S	- 1.227	14.499
	42	3	33.6	0.51	3.9	11.7	0.25	0.46	S	1.667	3.219
	15	4	35.4	0.54	3.7	10.3			N	0.072	- 0.950
159	65	0	7.6	0.12	4.7	61.5	2.23	2.16	S	1.862	2.053
	70	1	22.7	0.35	2.1	9.3	1.16	0.38	N	- 0.157	- 0.382
	326	2	29.1	0.44	3.4	11.8	0.84	1.02	S	0.821	0.694
	254	3	35.2	0.54	3.9	11.1	0.35	0.90	S	0.610	- 0.132
	39	4	38.8	0.59	6.2	16.1	0.10	0.19	N	0.874	0.247
	30	5	40.1	0.61	6.7	16.8			N	0.345	- 1.056
160	6	1	19.2	0.17	1.0	5.1	1.66	0.41	O	1.438	3.603
	78	2	27.1	0.23	3.8	13.9	1.11	0.90	N	0.278	0.225
	128	3	30.4	0.31	4.6	12.7	0.76	0.72	N	0.199	- 0.398
	141	4	43.5	0.38	4.8	11.0	0.83	0.86	N	0.421	- 0.123
	144	5	52.1	0.45	5.6	10.7	0.66	0.97	N	0.036	- 0.373
	97	6	59.6	0.51	5.7	9.5	0.51	0.79	N	0.334	- 0.008
	71	7	65.3	0.56	5.4	8.3	0.58	1.19	N	0.128	- 0.741
	34	8	71.7	0.62	5.6	7.8	0.57	0.93	N	- 0.860	0.142
	11	9	76.9	0.66	3.6	4.6	0.45	0.81	O	- 0.243	- 0.783
	10	10	80.9	0.70	5.4	6.6	0.15	0.35	O	- 1.196	- 0.234
	5	11	82.8	0.71	7.8	9.4	0.86	1.08	O	- 0.174	- 1.544
	2	12	92.5	0.80	3.5	3.8			O	0.000	0.000
161	14	2	26.1	0.23	5.7	21.8	1.00	0.42	N	- 0.122	- 1.345
	61	3	35.6	0.31	3.7	10.5	0.95	1.15	N	0.131	- 0.779
	45	4	43.2	0.38	4.3	10.0	0.88	1.25	S	1.517	5.372
	24	5	51.1	0.44	4.6	9.0	0.61	0.81	N	- 0.268	1.022
	23	6	57.9	0.50	6.6	11.4			N	- 0.206	- 0.236
162	7	2	26.7	0.27	5.7	21.4	0.84	0.00	O	- 0.944	- 0.155
	88	3	34.2	0.34	3.2	9.3	1.10	1.01	N	0.386	- 0.477
	130	4	42.9	0.43	4.8	11.2	0.66	1.02	S	0.711	1.136
	82	5	49.4	0.49	5.0	10.1	0.86	1.29	S	0.236	- 0.253
	42	6	58.3	0.58	5.4	9.3	0.49	0.94	N	- 0.352	- 0.884
	25	7	63.5	0.63	5.1	8.1	0.32	0.61	N	0.215	- 0.406
	16	8	66.6	0.67	4.7	7.0			N	0.541	0.138
163	21	3	43.1	0.43	5.2	12.1	0.81	0.00	N	- 1.279	1.087
	136	4	50.2	0.50	3.5	7.0	0.77	0.40	S	- 0.328	2.222
	256	5	56.5	0.56	4.8	8.4	0.43	0.90	N	0.259	- 0.363
	174	6	60.9	0.61	5.4	8.8	0.58	1.10	N	- 0.062	- 0.132
	44	7	66.9	0.67	4.8	7.2	0.27	0.64	S	1.578	2.769
	8	8	70.0	0.70	6.9	9.8			O	1.140	0.518
164	12	1	24.5	0.25	1.7	7.1	0.68	0.00	O	0.441	0.234
	228	2	27.7	0.28	2.9	10.4	1.14	1.01	N	0.356	0.630
	345	3	35.7	0.36	4.2	11.7	1.20	1.32	N	- 0.009	- 0.075
	247	4	45.4	0.45	4.0	8.8	1.12	1.50	S	- 0.386	- 0.024
	98	5	53.9	0.54	3.6	6.6	1.16	1.68	N	- 0.142	0.873
	39	6	64.9	0.64	5.1	7.9	1.07	1.70	N	0.491	- 0.074
	11	7	75.3	0.75	5.5	7.3			O	- 0.613	0.703
165	28	0	19.6	0.24	4.0	20.2	0.72	0.43	N	0.562	- 0.208
	43	1	25.6	0.31	4.3	16.8	1.54	1.77	N	- 0.368	- 0.057
	28	2	41.9	0.51	6.3	15.0	0.42	0.85	N	- 0.897	0.148
	16	3	47.3	0.57	6.7	14.2	0.60	1.11	N	0.071	0.146
	6	4	54.7	0.66	5.7	10.5	0.43	0.07	O	1.407	2.054
	8	5	59.3	0.72	5.0	8.4	0.35	0.69	O	0.413	- 0.965
	6	6	62.7	0.76	4.8	7.7			O	- 0.879	- 0.500

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
166	18	0	19.2	0.13	2.7	13.8	1.47	1.25	O	0.629	- 0.170
	38	1	30.0	0.21	4.7	15.6	0.96	0.86	N	0.412	0.108
	40	2	37.6	0.26	3.3	8.7	1.06	1.41	S	- 0.216	3.254
	29	3	47.4	0.33	6.0	12.7	0.74	1.10	N	- 0.120	- 0.387
	18	4	56.7	0.39	6.5	11.5	0.56	0.31	N	0.006	- 0.643
	24	5	64.0	0.44	6.6	10.3	0.57	0.49		0.000	0.000
	24	6	70.8	0.49	5.4	7.6	0.52	1.08	N	0.027	- 0.222
	14	7	76.6	0.53	5.9	7.7	0.41	0.00	O	- 1.048	1.283
	26	8	81.5	0.57	6.1	7.5			N	- 1.291	1.576
167	13	0	12.7	0.09	2.1	16.8	1.93	1.78	O	2.292	6.822
	24	1	22.3	0.16	2.9	12.9	0.88	0.63	N	0.357	- 0.078
	44	2	29.1	0.21	4.8	16.5	0.92	0.79	N	0.152	- 0.839
	60	3	39.0	0.28	6.0	15.4	0.76	1.03	N	- 0.336	- 0.764
	35	4	47.3	0.34	4.9	10.4	0.68	0.92	N	- 0.526	- 0.093
	27	5	54.3	0.39	5.4	9.9	0.55	0.39	N	0.543	- 0.140
	34	6	60.7	0.44	6.2	10.2	0.92	1.02	N	0.338	- 0.158
	26	7	71.2	0.51	5.4	7.5	0.67	0.94	N	0.125	0.197
	18	8	78.3	0.56	5.2	6.7			N	- 0.814	- 0.458
168	26	0	16.2	0.15	3.1	18.9	0.78	0.00	N	0.572	- 0.753
	97	1	21.4	0.19	3.6	17.0	1.21	1.46	S	0.719	- 0.355
	55	2	30.6	0.28	4.0	13.0	1.27	1.23	N	0.167	- 0.568
	65	3	41.7	0.38	4.8	11.5	0.83	0.92	N	- 0.140	- 0.599
	52	4	49.1	0.45	4.2	8.6	0.28	0.19	N	0.142	- 0.415
	61	5	51.8	0.47	5.3	10.2	0.56	0.38	N	0.293	- 0.174
	74	6	57.6	0.52	5.2	8.9	0.79	1.17	N	0.465	0.056
	43	7	66.0	0.60	5.5	8.3	0.74	1.45	N	- 0.094	- 0.511
	16	8	74.5	0.68	6.1	8.2	0.31	0.59	N	- 0.069	- 1.172
	9	9	78.1	0.71	5.7	7.3			O	0.243	- 0.969
169	22	2	34.6	0.34	4.6	13.4	1.59	1.75	N	1.072	- 0.047
	12	3	48.8	0.49	4.4	9.0	0.46	0.18	O	- 1.052	1.299
	16	4	53.1	0.53	4.9	9.3	0.57	0.65	O	0.990	0.987
	14	5	58.6	0.58	4.7	7.9	0.87	0.39	N	- 0.040	- 0.838
	33	6	66.4	0.66	4.4	6.6	0.58	0.78	N	0.662	0.141
	27	7	71.6	0.71	4.5	6.3	0.86	1.43	N	0.758	0.505
	11	8	79.9	0.80	5.1	6.4	0.19	0.39	O	0.710	- 0.787
	6	9	82.0	0.82	5.8	7.0			O	0.000	- 2.304
170	28	0	13.1	0.10	1.9	14.3	1.56	1.38	O	0.426	- 0.714
	49	1	20.2	0.16	2.7	13.2	0.99	0.97	N	- 0.005	- 0.780
	63	2	26.9	0.21	4.0	14.9	1.26	1.32	N	- 0.034	- 0.970
	57	3	37.3	0.30	4.3	11.5	1.05	1.25	N	- 0.490	- 0.310
	34	4	45.8	0.36	3.7	8.1	1.13	1.21	N	- 0.660	- 0.359
	27	5	53.8	0.43	3.4	6.3	1.19	1.15	N	- 0.239	0.664
	29	6	61.6	0.49	3.2	5.1	1.39	1.45	N	- 0.205	- 0.742
	24	7	70.4	0.56	3.2	4.5	1.00	1.08	N	- 0.494	- 0.503
	20	8	76.6	0.61	3.0	3.9	0.99	1.33	O	- 1.159	1.034
	10	9	82.4	0.66	2.8	3.4			O	0.660	- 0.378
171	7	0	16.7	0.13	1.4	8.3	1.33	0.58	O	0.174	0.336
	38	1	21.5	0.17	2.2	10.3	1.22	1.18	N	0.398	- 0.100
	53	2	28.4	0.23	3.5	12.3	1.49	1.60	N	- 0.311	- 0.698
	33	3	37.6	0.30	2.6	7.0	1.31	1.49	N	0.354	- 0.414
	26	4	45.6	0.36	3.6	7.8	0.84	1.01	N	0.090	- 1.055
	26	5	53.4	0.42	5.6	10.5	0.94	0.92	N	- 0.061	- 1.277
	22	6	62.3	0.50	3.8	6.2			N	0.172	- 0.244
172	15	0	13.9	0.11	1.5	10.7	1.42	0.81	O	0.130	0.182
	73	1	19.8	0.16	2.6	13.2	2.63	2.56	S	1.161	1.117
	103	2	32.0	0.26	2.0	6.4	1.42	1.38	S	- 0.381	- 0.607
	139	3	39.0	0.31	2.9	7.4	1.62	1.35	N	0.077	- 0.672
	341	4	47.5	0.38	2.3	4.9	1.13	1.25	N	- 0.135	- 0.793
	356	5	54.6	0.44	4.0	7.3	1.42	1.70	S	0.782	0.482
	132	6	64.7	0.52	3.1	4.8	1.54	1.81	S	0.498	1.020
	46	7	72.9	0.58	2.3	3.1	1.67	1.94	S	- 0.198	- 1.077
	25	8	81.7	0.65	3.0	3.7	1.00	1.50	O	- 0.760	2.087
	12	9	89.0	0.71	4.3	4.8			O	- 0.068	- 1.181
173	289	1	17.0	0.32	2.6	15.1	2.82	2.57			
	1249	2	31.2	0.58	2.5	7.9	1.44	1.58			
	759	3	37.8	0.71	2.1	5.6	1.28	1.46			
	435	4	42.9	0.80	1.9	4.3	1.47	2.47			
	21	5	48.1	0.90	1.7	3.5					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
174	54	0	11.6	0.16	2.2	18.6	1.61	1.44	N	0.370	- 0.423
	97	1	20.2	0.28	3.2	16.0	1.15	1.45	N	- 0.127	- 0.477
	47	2	27.7	0.39	3.2	11.7	1.09	1.36	N	- 1.348	2.806
	29	3	35.2	0.49	3.7	10.4	0.69	0.93	N	- 0.966	0.503
	21	4	40.2	0.56	3.6	9.0	7.45	0.00	O	- 1.267	0.949
	9	5	44.9	0.63	1.8	3.9	0.00	0.00	O	0.214	0.144
	3	6	48.0	0.67	2.0	4.2			O	0.000	0.000
175	309	0	15.5	0.22	3.6	23.4	1.17	1.11	S	- 0.345	- 0.713
	341	1	23.7	0.34	3.4	14.3	0.96	1.03	S	- 0.643	0.235
	316	2	30.5	0.44	3.7	12.3	0.64	1.07	S	- 1.234	1.935
	175	3	35.1	0.51	3.6	10.2	0.90	1.09	S	- 1.051	0.789
	111	4	41.1	0.59	3.1	7.5	0.42	0.49	S	- 2.042	5.079
	92	5	43.4	0.62	2.4	5.5	0.81	1.13	S	- 1.054	0.606
	50	6	47.0	0.68	2.0	4.3	0.76	0.89	N	- 0.492	- 0.062
	40	7	50.0	0.72	2.0	3.9			O	- 0.168	- 0.158
176	807	1	20.7	0.29	1.9	9.3	2.65	2.61	S	- 0.128	- 0.379
	897	2	30.3	0.43	1.7	5.7	0.68	1.17	S	0.326	0.469
	496	3	32.8	0.47	2.0	6.0	2.78	2.64	S	1.386	2.798
	1199	4	44.5	0.63	2.3	5.1	0.45	0.00	S	- 0.134	2.074
	2312	5	46.7	0.66	2.5	5.4	1.09	1.71	S	0.591	0.104
	596	6	52.0	0.74	2.4	4.6	0.56	1.13	S	- 0.787	1.212
	176	7	54.7	0.78	2.5	4.5			S	- 0.270	0.172
177	524	1	19.8	0.23	1.9	9.7	2.83	2.69	S	0.923	1.650
	1139	2	31.1	0.36	2.0	6.5	0.29	0.69	S	- 0.056	0.306
	676	3	32.5	0.38	2.8	8.7	2.42	2.45	S	1.005	2.846
	489	4	44.7	0.52	2.3	5.0	0.42	0.00	S	- 0.655	1.886
	2099	5	46.7	0.54	2.5	5.4	1.05	1.81	S	0.802	1.248
	444	6	52.2	0.61	2.7	5.1	0.62	0.98	S	- 0.302	1.293
	265	7	55.3	0.64	2.4	4.4	1.04	1.37	S	0.404	1.829
	159	8	60.9	0.71	2.9	4.8	0.80	1.60	S	0.341	- 0.120
	24	9	65.6	0.76	3.0	4.6			N	0.468	1.049
178	36	3	38.9	0.32	4.2	10.8	0.81	0.17	N	- 0.356	0.358
	136	4	44.7	0.37	2.9	6.5	1.36	1.37	N	- 0.239	0.129
	160	5	54.4	0.45	4.3	7.9	0.77	0.47	S	- 0.739	1.023
	241	6	60.3	0.50	3.3	5.5	0.45	0.90	N	0.027	0.228
	85	7	63.3	0.53	3.3	5.3	0.70	1.86	N	- 0.328	- 0.036
	20	8	69.9	0.58	6.1	8.7			S	0.042	- 0.380
179	44	3	36.2	0.50	2.5	7.0	1.09	0.67	N	0.423	- 0.364
	108	4	42.4	0.59	3.1	7.4	0.84	1.45	N	0.011	- 0.561
	49	5	48.6	0.67	4.3	8.8			N	- 0.305	0.279
180	21	2	27.6	0.23	2.5	8.9	1.19	0.41	O	1.173	3.438
	99	3	36.0	0.30	4.6	12.8	0.94	0.65	N	0.155	- 0.180
	172	4	43.8	0.36	3.7	8.4	0.98	1.07	N	- 0.166	- 0.215
	154	5	51.4	0.43	4.1	8.0	0.89	0.95	N	- 0.013	0.181
	142	6	59.0	0.49	4.5	7.6	0.48	0.96	N	- 0.328	- 0.136
	82	7	63.3	0.52	4.5	7.1	0.74	1.43	N	- 0.095	- 0.132
	30	8	69.9	0.58	4.5	6.4	0.83	1.32	N	- 0.121	1.527
	16	9	78.5	0.65	5.9	7.5	0.58	1.06	N	0.571	- 0.079
	7	10	84.7	0.70	4.8	5.7	0.64	0.79	O	0.832	0.065
	6	11	91.0	0.75	5.1	5.6	0.33	0.08	O	- 0.334	- 1.807
	6	12	93.3	0.77	2.0	2.1			O	1.438	3.603
181	28	2	27.9	0.42	2.9	10.4	1.22	0.41	N	0.896	0.795
	173	3	35.5	0.53	3.3	9.4	0.72	0.30	S	- 0.174	1.106
	311	4	40.3	0.60	3.3	8.1	0.58	1.31	N	0.043	- 0.415
	65	5	44.7	0.66	4.2	9.5	0.89	1.85	N	- 0.151	- 0.699
	13	6	52.9	0.79	5.0	9.5			N	- 0.087	- 1.097
182	10	1	27.0	0.27	1.9	7.2	0.45	0.00	O	0.454	- 0.516
	88	2	29.1	0.29	2.7	9.4	1.08	1.03	N	0.184	- 0.257
	108	3	35.5	0.36	3.2	9.1	1.20	1.64	S	0.743	0.308
	50	4	45.2	0.45	4.8	10.7	1.27	1.58	N	- 0.329	0.356
	20	5	56.6	0.57	4.2	7.4	1.48	1.47	N	0.724	0.080
	19	6	67.6	0.68	3.2	4.8	1.26	1.48	N	- 0.323	- 0.940
	14	7	77.3	0.77	4.5	5.8			O	0.571	- 0.519
183	42	1	29.8	0.21	5.5	18.5	0.97	1.05	N	0.448	- 0.361
	38	2	41.2	0.30	6.2	15.1	0.42	0.77	N	- 0.787	- 0.066
	23	3	46.0	0.33	5.4	11.7	0.79	1.36	N	- 0.300	0.181
	9	4	54.1	0.39	5.0	9.3	0.45	0.46	O	- 0.575	- 0.085
	11	5	59.7	0.43	7.5	12.6	0.65	0.49	N	0.251	- 1.044
	13	6	69.0	0.50	6.7	9.7			O	- 0.728	0.467

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
184	15	0	16.6	0.15	2.9	17.2	0.89	0.11	O	- 0.110	- 0.375
	49	1	23.2	0.20	4.6	19.8	1.30	1.81	N	0.745	0.066
	15	2	36.1	0.32	5.3	14.7	0.28	0.00	N	0.855	1.196
	23	3	39.2	0.34	5.9	15.0	0.36	0.39	N	0.425	- 0.329
	25	4	43.9	0.38	7.2	16.4	0.87	0.79	N	0.534	- 1.016
	25	5	54.7	0.48	5.3	9.7	0.44	0.09	N	0.232	0.018
	34	6	59.4	0.52	5.6	9.4	0.43	0.66	N	0.262	- 0.193
	24	7	63.7	0.56	4.2	6.7	0.70	1.09	N	0.955	0.921
	13	8	69.3	0.61	3.8	5.5			O	0.677	0.278
185	95	1	20.6	0.16	4.8	23.2	0.93	1.28	N	0.877	0.373
	58	2	30.6	0.24	5.9	19.4	1.07	1.50	N	- 0.680	- 0.288
	20	3	42.3	0.33	5.0	11.9	0.34	0.50	N	0.089	- 1.091
	16	4	45.4	0.35	4.0	8.9	1.03	1.00	S	- 0.010	- 1.567
	16	5	53.1	0.41	3.5	6.7	0.73	0.99	O	- 0.520	- 0.561
	10	6	58.0	0.45	3.2	5.5	1.50	1.61	O	0.000	- 0.895
	8	7	68.3	0.53	3.7	5.4			O	- 1.080	1.440
186	22	1	24.2	0.19	3.2	13.2	0.66	0.28	O	- 0.104	0.548
	40	2	29.7	0.24	5.1	17.3	0.56	0.51	N	- 0.325	- 0.943
	41	3	35.2	0.28	4.7	13.4	1.12	1.08	S	- 0.631	- 0.858
	41	4	44.6	0.35	3.7	8.2	0.98	1.04	N	- 0.746	1.402
	33	5	51.1	0.41	3.0	5.8	1.23	1.35	O	- 0.667	0.872
	22	6	57.7	0.46	2.4	4.2			N	- 0.087	- 1.015
187	31	0	16.4	0.13	1.7	10.0	1.45	1.52	O	- 0.158	- 0.364
	31	1	22.4	0.18	2.4	10.9	1.29	1.15	N	0.672	0.479
	47	2	29.5	0.23	3.1	10.4	1.56	1.56	N	- 0.036	- 0.814
	45	3	38.4	0.31	2.7	6.9	1.27	1.24	N	0.059	- 0.140
	51	4	45.7	0.36	3.1	6.8	1.02	1.19	N	0.005	- 0.816
	46	5	53.4	0.42	4.4	8.2	1.26	1.55	N	- 0.680	0.298
	19	6	63.5	0.50	3.7	5.8	0.88	0.73	N	0.097	- 0.145
	23	7	69.5	0.55	3.1	4.4			N	- 0.804	- 0.192
188	31	0	15.2	0.15	1.6	10.4	1.49	0.00	O	- 0.178	- 1.347
	1027	1	22.9	0.23	3.6	15.7	1.46	1.14	S	0.066	- 1.277
	2774	2	32.4	0.32	2.9	8.8	0.89	1.75	S	- 0.238	- 0.456
	671	3	38.1	0.38	3.6	9.4	1.38	1.88	S	- 0.108	- 0.052
	152	4	47.6	0.48	3.3	7.0	1.20	1.27	S	- 0.253	- 0.590
	136	5	56.0	0.56	3.7	6.6	1.24	1.31	N	0.384	- 0.349
	108	6	64.8	0.65	3.4	5.2	0.91	1.50	N	0.037	0.144
	39	7	71.2	0.71	3.6	5.1			N	0.481	0.585
189	39	1	18.5	0.57	1.1	5.9	1.39	1.37	N	0.276	- 0.822
	38	2	21.7	0.67	1.2	5.3	1.39	1.83	N	0.159	- 0.715
	10	3	24.6	0.76	1.0	3.9	0.63	0.31	O	0.110	- 0.623
	15	4	25.8	0.80	0.9	3.6	1.16	1.17	O	- 0.142	- 0.849
	10	5	27.5	0.85	0.5	1.9	1.06	1.52	O	0.000	- 2.570
	6	6	29.0	0.90	0.9	3.1			O	0.000	- 1.875
190	35	1	18.3	0.51	1.2	6.6	1.25	1.42	N	0.998	0.398
	28	2	21.7	0.61	1.6	7.2	1.00	1.03	N	- 0.305	- 0.627
	19	3	24.1	0.68	0.8	3.2	1.04	1.28	O	- 0.096	- 1.271
	15	4	25.9	0.73	1.0	4.0	0.73	0.87	O	- 0.749	- 0.299
	12	5	27.4	0.77	1.0	3.7	0.78	0.60	O	0.274	- 0.654
	13	6	28.7	0.81	0.6	2.2			O	0.307	- 0.317
191	651	0	14.1	0.32	2.1	15.0	1.01	0.94	S	- 1.522	3.415
	732	1	18.5	0.41	2.2	11.8	0.69	1.33	S	- 0.074	- 0.963
	282	2	21.4	0.48	2.1	9.8	1.23	2.15	S	0.512	- 0.422
	37	3	27.6	0.62	2.9	10.6	0.45	0.89	N	- 0.466	0.473
	24	4	30.2	0.68	2.9	9.6	0.70	1.00	O	- 0.493	0.154
	12	5	33.6	0.75	1.9	5.8	0.21	0.31	O	- 1.201	1.711
	4	6	34.3	0.77	1.3	3.7	0.59	0.79	O	1.129	2.227
	3	7	35.7	0.80	1.2	3.3			O	1.732	0.000
192	25	3	32.0	0.49	3.9	12.3	0.64	0.61			
	28	4	37.4	0.57	4.4	11.9	0.38	0.81			
	22	5	41.1	0.63	5.2	12.7	0.50	0.27			
	25	6	45.6	0.70	3.8	8.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
193	6	3	44.0	0.39	2.5	5.6	0.41	0.00	O	- 0.857	- 0.300
	20	4	45.7	0.41	1.7	3.6	0.83	0.90	O	- 0.083	0.766
	27	5	49.9	0.45	3.4	6.8	1.51	1.55	N	0.717	- 0.253
	24	6	60.5	0.54	3.6	6.0	0.90	1.55	O	- 0.958	0.569
	8	7	67.4	0.60	4.1	6.0	0.92	1.01	O	- 2.126	5.003
	6	8	74.0	0.66	3.1	4.2	0.66	0.74	O	0.666	0.586
	5	9	77.8	0.70	2.7	3.4	0.11	0.00	O	1.258	0.313
	4	10	78.3	0.70	1.5	1.9			O	- 2.000	4.000
194	13	1	21.6	0.20	1.3	6.1	2.16	2.12	O	0.349	- 0.946
	24	2	32.0	0.30	3.5	11.0	1.06	1.64	N	0.117	- 0.592
	12	3	43.5	0.41	7.3	16.7	0.83	0.80	O	- 0.092	- 0.096
	10	4	53.2	0.50	4.4	8.3	1.17	1.24	O	- 0.251	- 0.254
	8	5	63.1	0.59	4.0	6.4	0.63	1.04	O	- 0.245	- 1.822
	6	6	69.3	0.65	5.8	8.4	0.88	0.55	O	- 1.019	0.467
	11	7	77.5	0.73	3.5	4.5	1.14	1.32	N	- 0.568	- 0.218
	9	8	87.1	0.82	4.9	5.6			S	0.435	0.904
195	27	2	28.9	0.54	2.8	9.8	1.46	0.95	N	- 0.340	1.246
	111	3	37.3	0.69	2.9	7.8	0.89	0.41	N	- 0.456	1.255
	265	4	42.1	0.78	2.5	6.0	0.78	1.67	N	0.039	0.543
	50	5	46.3	0.86	2.9	6.3	0.44	0.00	N	- 0.083	0.263
	103	6	48.9	0.91	2.9	5.9	0.33	0.69	N	0.146	0.034
	64	7	50.9	0.95	3.3	6.5	0.07	0.15	N	0.202	0.067
	18	8	51.4	0.96	4.9	9.6			N	1.673	4.364
196	26	2	27.9	0.52	3.3	11.9	1.78	1.38	N	- 0.372	0.127
	136	3	37.9	0.71	2.3	6.1	0.80	0.30	S	- 0.684	1.151
	301	4	41.6	0.78	2.3	5.6	0.89	1.71	N	0.079	0.770
	66	5	45.6	0.86	2.2	4.9	0.46	0.00	N	- 0.105	- 0.028
	106	6	47.7	0.89	2.3	4.8	0.31	0.75	N	0.824	1.453
	29	7	49.4	0.93	3.3	6.7	0.36	0.88	N	0.193	0.491
	14	8	52.4	0.98	4.8	9.2			S	0.506	0.514
197	73	3	36.2	0.58	2.6	7.2	0.90	1.53	N	0.323	- 0.098
	24	4	41.0	0.66	2.7	6.5	0.60	0.00	N	- 0.092	0.277
	79	5	44.7	0.72	3.5	7.8	0.42	0.75	S	0.584	0.442
	62	6	47.7	0.77	3.8	7.9	0.35	0.69	N	0.613	- 0.339
	30	7	50.4	0.81	3.9	7.8			N	0.011	- 0.776
198	76	3	36.7	0.65	2.5	6.8	0.70	1.28	S	- 0.017	- 0.095
	38	4	40.6	0.72	3.1	7.6	0.53	0.00	N	- 0.067	- 0.908
	74	5	43.5	0.77	2.4	5.6	0.39	0.90	S	0.853	2.193
	47	6	45.8	0.81	3.4	7.4	0.31	0.65	N	0.117	- 1.152
	14	7	48.1	0.85	3.9	8.2			N	- 0.421	- 0.638
199	434	1	12.5	0.66	0.9	7.1	2.27	3.03	S	0.366	2.040
	23	2	17.1	0.90	1.1	6.5	0.66	1.34	O	0.879	0.057
	7	3	18.6	0.99	1.2	6.5			O	- 0.366	1.779
200	573	1	13.4	0.67	1.0	7.5	2.28	2.97	S	0.550	2.949
	40	2	18.6	0.93	1.3	6.8	0.68	1.11	S	- 0.017	- 0.951
	11	3	20.1	1.00	0.9	4.7			O	- 0.610	- 0.239
201	17	1	9.4	0.16	4.6	49.4	2.40	2.07	N	0.874	- 0.278
	119	2	27.4	0.46	2.9	10.5	0.83	1.01	N	0.447	0.342
	97	3	32.6	0.54	3.4	10.3	0.30	0.72	N	1.177	2.489
	81	4	35.0	0.58	4.9	14.1	0.33	0.65	O	1.404	4.894
	42	5	38.2	0.64	4.8	12.4	0.05	0.00	N	0.339	- 0.648
	21	6	37.8	0.63	4.6	12.3	0.15	0.32	N	0.521	- 0.749
	8	7	39.4	0.65	6.3	16.0	0.07	0.00	O	1.883	4.073
	8	8	38.5	0.64	5.6	14.4			O	2.300	5.552
202	9	1	17.3	0.29	2.3	13.5	2.40	1.84	O	- 0.112	- 0.241
	110	2	29.7	0.49	2.9	9.6	0.96	1.26	N	- 0.454	0.213
	73	3	35.9	0.60	3.7	10.3	0.47	0.11	N	0.262	- 0.604
	103	4	39.5	0.66	3.9	9.8	0.23	0.46	S	0.180	- 0.407
	63	5	41.3	0.69	4.3	10.3	0.36	0.82	N	- 0.389	- 0.398
	20	6	44.9	0.75	5.4	12.0	0.22	0.45	N	- 0.273	- 1.258
	10	7	47.3	0.79	5.9	12.5			O	0.109	- 0.670
203	105	0	6.3	0.11	2.1	32.5	3.23	3.36	S	2.555	7.299
	72	1	24.5	0.41	3.6	14.6	0.78	0.78	S	1.149	6.050
	64	2	29.5	0.49	2.8	9.6	0.68	1.06	N	- 0.041	- 0.041
	51	3	34.4	0.57	4.4	12.8	0.13	0.25	N	1.093	0.850
	33	4	35.6	0.59	4.7	13.2	0.06	0.08	N	0.533	- 0.282
	14	5	36.1	0.60	2.9	8.0			O	0.866	0.675

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
204	93	0	9.0	0.15	3.0	33.1	3.12	3.02	S	0.912	- 0.027
	167	1	28.1	0.47	3.1	11.1	1.13	1.22	N	- 0.627	2.102
	130	2	34.9	0.58	2.9	8.2	0.72	0.98	N	- 0.042	0.562
	108	3	39.6	0.66	3.7	9.4	0.39	0.72	S	- 0.169	- 0.932
	86	4	42.6	0.71	3.9	9.1	0.20	0.39	N	- 0.028	- 0.239
	64	5	44.2	0.73	3.9	8.8	0.18	0.36	N	- 0.105	- 0.677
	17	6	45.6	0.76	4.2	9.2			N	- 0.122	- 1.393
205	32	1	29.6	0.50	2.9	9.9	2.03	1.81	N	- 0.206	- 0.681
	73	2	41.5	0.70	3.0	7.1	0.50	1.22	N	0.358	0.473
	42	3	45.2	0.76	4.5	9.9	0.83	1.72	N	0.532	0.256
	7	4	52.9	0.89	4.8	9.1			O	0.826	1.078
206	26	1	31.0	0.32	2.9	9.4	1.89	1.65	N	0.724	0.438
	66	2	45.7	0.47	4.9	10.7	0.75	1.03	S	- 0.442	1.742
	54	3	54.6	0.57	7.0	12.7	0.91	1.45	N	0.099	- 0.505
	12	4	64.8	0.67	4.2	6.5			O	- 0.660	- 1.059
207	19	0	25.3	0.22	5.6	22.0	1.24	0.90	N	0.330	- 0.878
	46	1	37.9	0.32	4.5	11.9	1.03	0.75	N	0.146	- 0.984
	82	2	46.2	0.39	3.6	7.8	0.82	2.17	N	0.501	0.665
	13	3	56.4	0.48	8.9	15.8			O	1.218	1.332
208	9	0	32.8	0.27	4.1	12.4	0.79	0.00	O	- 0.943	1.420
	38	1	40.3	0.34	5.5	13.6	1.35	0.95	S	1.249	1.065
	117	2	54.4	0.45	4.9	9.0	0.80	1.63	N	- 0.259	0.222
	39	3	64.2	0.54	7.5	11.6	0.70	1.34	N	- 0.167	- 0.980
	10	4	74.3	0.62	6.9	9.3	1.08	1.09	O	0.329	- 0.838
	8	5	86.9	0.72	4.7	5.4			O	- 0.293	1.127
209	121	3	21.6	0.53	1.8	8.3	1.15	0.72			
	337	4	26.1	0.64	2.1	8.1	0.69	0.90			
	224	5	28.8	0.70	1.8	6.3	0.54	1.11			
	96	6	30.9	0.76	2.1	6.8	0.50	1.00			
	32	7	33.0	0.81	2.1	6.4	0.51	0.86			
	7	8	34.8	0.85	1.4	4.0	0.73	1.57			
	3	9	38.0	0.93	3.0	7.9					
210	97	3	22.4	0.55	2.0	8.9	0.93	0.40			
	245	4	26.1	0.64	2.0	7.7	0.73	0.90			
	197	5	29.0	0.71	2.0	6.9	0.62	1.15			
	89	6	31.4	0.77	1.9	6.1	0.49	1.00			
	38	7	33.3	0.81	2.0	6.0	0.12	0.25			
	15	8	33.8	0.83	2.3	6.8	0.60	0.91			
	7	9	35.9	0.88	1.2	3.3	1.21	1.67			
	3	10	39.3	0.96	1.6	4.1					
	1	11	40.1	0.98	0.0	0.0					
211	9	0	7.7	0.41	1.2	16.0	0.68	0.00	O	- 0.233	- 1.556
	65	1	9.4	0.51	1.3	14.0	1.18	0.91	N	- 0.281	- 0.407
	127	2	11.9	0.65	0.8	7.0	1.06	0.83	O	- 0.469	0.088
	190	3	13.5	0.73	0.6	4.7	0.80	1.41	N	- 0.081	- 0.224
	60	4	14.5	0.78	0.6	4.1			O	0.248	- 0.382
212	12	0	6.2	0.37	0.8	13.6	0.86	0.12	O	0.771	1.148
	38	1	7.8	0.46	1.0	13.3	0.89	0.39	N	- 0.447	- 0.845
	93	2	9.5	0.56	0.9	9.5	0.53	0.77	N	0.049	- 0.742
	69	3	10.4	0.62	0.9	8.3	0.81	1.39	N	0.230	- 0.522
	27	4	11.9	0.70	0.9	7.7			O	0.645	1.055
213	56	1	3.5	0.36	0.6	18.0	1.84	1.61			
	139	2	6.3	0.66	0.9	14.4	0.62	1.11			
	60	3	7.3	0.77	0.8	11.0	0.90	1.50			
	24	4	8.8	0.93	0.9	10.3	0.60	0.00			
	14	5	7.8	0.82	0.8	10.8					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
214	5	0	2.6	0.40	0.4	15.4					
	62	1	4.4	0.68	0.4	9.1					
	12	1	4.3	0.66	0.2	4.7					
	8	1	4.0	0.62	0.3	7.5					
	18	1	3.9	0.60	0.2	5.1					
	58	2	5.3	0.82	0.3	5.7					
	30	2	5.3	0.82	0.2	3.8					
	8	2	5.0	0.77	0.6	12.0					
	15	2	5.3	0.82	0.4	7.6					
	52	2	5.2	0.80	0.3	5.8					
	4	2	5.1	0.78	0.2	3.9					
	71	3	5.8	0.89	0.3	5.2					
	23	3	5.8	0.89	0.3	5.2					
	6	3	5.9	0.91	0.1	1.7					
	22	3	5.9	0.91	0.2	3.4					
	18	3	5.9	0.91	0.2	3.4					
	18	3	5.8	0.89	0.2	3.5					
	26	3	5.9	0.91	0.2	3.4					
	25	4	6.2	0.95	0.2	3.2					
	17	4	6.1	0.94	0.2	3.3					
	13	4	6.1	0.94	0.2	3.3					
	11	4	6.2	0.95	0.2	3.2					
	39	4	6.2	0.95	0.2	3.2					
	9	5	6.2	0.95	0.2	3.2					
	3	5	6.3	0.97	0.3	4.8					
	5	5	6.5	1.00	0.2	3.1					
	5	5	6.3	0.97	0.3	4.8					
	22	5	6.4	0.98	0.2	3.1					
	4	6	6.6	1.02	0.2	3.0					
	10	6	6.5	1.00	0.3	4.6					
221	2	1	17.7	0.28	1.6	9.0	1.52	0.31			
	65	2	22.7	0.35	1.7	7.5	1.08	0.71			
	145	3	26.7	0.42	2.0	7.5	0.71	1.00			
	102	4	29.6	0.46	2.1	7.1	0.69	0.95			
	83	5	32.9	0.51	2.7	8.2	0.56	0.41			
	90	6	35.6	0.56	2.1	5.9	0.76	0.57			
	128	7	39.0	0.61	2.4	6.2	0.56	0.50			
	119	8	41.3	0.65	1.7	4.1	0.50	1.00			
	61	9	43.0	0.67	1.7	4.0	0.60	1.06			
	36	10	45.1	0.70	1.8	4.0	0.59	0.72			
	24	11	46.8	0.73	1.1	2.[illegible]	0.47	1.36			
	10	12	48.3	0.75	2.1	4.4	0.73	1.33			
	6	13	52.6	0.82	3.8	7.2					
222	2	2	20.9	0.33	0.4	1.9	2.00	1.75			
	8	3	26.3	0.41	2.3	8.8	1.20	1.04			
	11	4	30.5	0.48	1.2	3.9	0.82	0.08			
	32	5	32.8	0.51	1.6	4.9	1.07	1.31			
	16	6	35.8	0.56	1.2	3.4	0.94	0.92			
	24	7	39.1	0.61	2.3	5.9	0.22	0.00			
	35	8	40.0	0.63	1.8	4.5	0.76	1.17			
	19	9	42.8	0.67	1.9	4.4	0.73	1.05			
	8	10	44.9	0.70	1.0	2.2	0.40	0.71			
	3	11	45.6	0.71	0.8	1.7					
	1	12	48.1	0.75	0.0	0.0					
223	22	0	8.5	0.27	2.8	33.1	0.93	1.39			
	9	1	13.5	0.44	2.6	19.0	1.21	0.74			
	45	2	18.2	0.59	1.3	7.3	0.92	0.60			
	81	3	20.3	0.65	1.0	4.7	0.85	0.52			
	134	4	22.0	0.71	1.1	4.8	0.69	1.24			
	66	5	23.5	0.76	1.1	4.8	1.19	1.42			
	28	6	25.6	0.83	0.6	2.5	0.85	1.43			
	5	7	26.6	0.86	0.6	2.1	1.05	1.09			
	4	8	27.7	0.89	0.5	1.8	1.11	1.20			
	3	9	28.7	0.93	0.4	1.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
224	54	0	9.0	0.29	3.0	33.3	0.86	1.24			
	23	1	13.4	0.43	2.2	16.0	0.99	0.70			
	43	2	16.5	0.53	1.0	5.9	1.31	1.86			
	16	3	19.7	0.64	1.5	7.5	0.62	0.41			
	19	4	21.3	0.69	1.1	5.2	1.25	1.26			
	12	5	23.2	0.75	0.4	1.8	1.98	2.20			
	9	6	25.3	0.82	0.7	2.6					
	1	7	26.7	0.86	0.0	0.0					
225		1	10.9	0.31	1.2	10.5	2.32				
		2	17.0	0.47	1.5	8.5	1.67				
		3	21.8	0.61	1.5	6.7	1.43				
		4	25.4	0.71	1.1	4.3	1.01				
		5	27.7	0.77	1.1	4.0	0.95				
		6	29.8	0.83	1.1	3.8					
226	11	1	11.0	0.58	1.4	13.0	2.18	2.24			
	6	2	15.7	0.83	0.7	4.5	1.25	1.41			
	5	3	17.6	0.93	0.8	4.6					
	2	4	20.0	1.06	0.0			0.00			
227	5	1	10.9	0.63	1.1	9.8	1.70	1.68			
	6	2	15.6	0.90	1.7	10.9	0.00	0.00			
	2	3	16.9	0.97	0.0	0.0					
228	71	1	6.7	0.24	0.7	10.3	2.11	2.46			
	26	2	10.4	0.36	1.1	10.2	1.84	1.79			
	35	3	14.2	0.50	1.0	7.1	1.56	1.60			
	31	4	17.2	0.60	0.9	5.2	0.56	0.89			
	22	5	18.2	0.64	1.0	5.4					
229	19	2	25.2	0.77	1.6	6.4	1.03	0.69			
	41	3	28.2	0.87	1.3	4.6	0.52	0.77			
	32	4	29.6	0.91	1.4	4.7	0.26	0.57			
	8	5	30.5	0.94	2.0	6.6					
231	32	0	12.8	0.20	1.5	11.8	0.92	0.07	O	0.213	- 1.143
	112	1	17.6	0.27	3.7	21.1	1.36	1.43	N	0.209	- 0.766
	84	2	26.6	0.42	3.0	11.1	1.58	1.79	N	0.361	- 0.980
	37	3	35.4	0.55	2.6	7.3	1.81	1.86	N	0.452	- 0.410
	25	4	43.2	0.67	1.7	4.0	1.88	2.15	O	0.686	0.286
	6	5	48.3	0.75	1.0	2.1			O	- 0.968	- 1.875
232	4	2	13.5	0.16	1.9	14.2	1.76	1.72			
	5	3	21.0	0.25	2.4	11.2	1.11	0.81			
	10	4	26.3	0.31	2.4	9.2	1.05	0.58			
	27	5	33.2	0.39	4.2	12.6	0.42	0.45			
	23	6	36.3	0.43	3.2	8.8	0.41	0.56			
	21	7	39.0	0.46	3.3	8.5	0.64	1.05			
	14	8	43.8	0.52	4.2	9.6	0.92	1.29			
	7	9	51.4	0.61	4.1	7.9	0.58	0.42			
	8	10	55.9	0.66	3.6	6.5	0.13	0.00			
	9	11	55.0	0.65	2.9	5.4	0.63	1.22			
	3	12	58.7	0.69	2.9	4.9	0.67	0.00			
	3	13	55.3	0.65	2.1	3.8	0.86	1.49			
	2	14	62.0	0.73	5.7	9.1					
	3	2	13.7	0.16	1.5	11.2	0.00	0.00			
233	12	3	18.8	0.17	2.3	12.3	1.41	1.65			
	10	4	28.1	0.25	4.3	15.3	0.44	0.00			
	24	5	31.3	0.28	3.1	9.7	1.19	1.31			
	18	6	38.7	0.35	3.2	8.2	0.54	0.85			
	15	7	42.7	0.38	4.1	9.6	0.32	0.90			
	5	8	46.4	0.42	7.5	16.2	0.21	0.00			
	12	9	49.0	0.44	4.8	9.7	0.37	0.32			
	14	10	53.0	0.48	6.0	11.3	0.33	0.32			
	13	11	56.6	0.51	5.0	8.9	0.78	1.65			
	4	12	66.0	0.59	7.0	10.6	0.17	0.00			
	8	13	63.5	0.57	7.4	11.6	0.41	0.80			
	5	14	69.4	0.62	7.0	10.1	0.27	0.23			
	2	15	71.5	0.64	0.7	1.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
234	9	1	12.0	0.09	1.7	13.8	2.37	1.75			
	98	2	26.9	0.21	4.6	17.2	0.90	0.73			
	131	3	35.4	0.27	4.9	13.8	0.67	0.98			
	99	4	42.8	0.33	6.0	14.1	1.04	1.43			
	43	5	55.1	0.43	5.8	10.6	0.96	0.70			
	70	6	65.0	0.50	4.5	6.9	0.64	0.76			
	63	7	71.0	0.55	4.8	6.7	0.47	1.01			
	24	8	75.8	0.59	5.5	7.2	0.46	0.86			
	18	9	81.3	0.63	6.4	7.9	0.12	0.19			
	11	10	82.5	0.64	3.9	4.7	0.23	0.72			
	6	11	85.3	0.66	8.3	9.7	1.00	1.03			
	2	12	95.0	0.73	1.4	1.5					
235	6	1	13.2	0.08	1.6	12.2	1.83	0.69			
	95	2	24.2	0.15	4.5	18.4	1.24	1.17			
	110	3	35.0	0.21	4.2	12.1	0.81	1.13			
	75	4	42.7	0.26	5.3	12.3	0.97	1.29			
	42	5	53.2	0.32	5.6	10.5	0.81	1.20			
	26	6	63.5	0.38	7.2	11.3	0.73	0.54			
	30	7	71.9	0.43	4.4	6.1	0.89	1.31			
	18	8	81.1	0.49	6.0	7.4	0.36	0.00			
	34	9	85.7	0.51	7.0	8.1	0.26	0.50			
	15	10	89.3	0.54	6.7	7.5	0.46	0.44			
	13	11	94.5	0.57	4.7	5.0	0.42	0.82			
	7	12	98.4	0.59	4.8	4.9	0.12	0.00			
	3	13	96.4	0.58	12.1	12.6					
236	12	1	18.3	0.15	3.1	16.7	0.70	0.00	O	2.180	- 0.416
	47	2	22.1	0.18	2.3	10.5	0.42	0.82	N	- 0.609	- 0.301
	39	3	24.3	0.20	3.0	12.5	0.39	0.92	S	- 0.419	0.409
	23	4	27.1	0.22	4.3	15.7	0.51	0.42	S	- 0.269	0.268
	26	5	31.7	0.26	4.7	14.9	0.24	0.55	S	0.870	0.915
	21	6	34.3	0.28	6.1	17.9	0.40	0.00	N	0.974	0.590
	28	7	38.5	0.32	4.3	11.3	0.62	0.76	N	- 0.136	- 0.998
	25	8	44.2	0.36	4.8	10.8	0.13	0.00	N	0.280	- 1.096
	28	9	45.4	0.38	5.2	11.5	0.47	0.75	N	0.189	- 0.882
	21	10	50.2	0.41	4.9	9.8	0.28	0.45	N	- 0.584	- 0.763
	9	11	52.4	0.43	3.1	6.0			O	- 0.973	1.290
237	4	1	31.8	0.37	1.1	3.5	1.23	0.00			
	113	2	36.4	0.42	2.6	7.1	0.84	0.38			
	238	3	40.7	0.47	2.5	6.1	0.90	1.12			
	147	4	45.0	0.52	2.3	5.1	0.92	1.05			
	120	5	49.3	0.57	2.4	4.9	0.86	1.08			
	109	6	54.6	0.63	3.8	7.0	0.54	0.55			
	111	7	58.8	0.68	4.0	6.8	0.60	0.90			
	75	8	63.5	0.74	3.9	6.1	0.66	1.15			
	34	9	68.1	0.79	3.1	4.6	0.62	0.84			
	25	10	71.8	0.83	2.9	4.0	0.80	1.07			
	13	11	75.7	0.88	2.0	2.6	0.32	0.65			
	7	12	77.0	0.89	2.1	2.7	0.06	0.05			
	6	13	77.2	0.90	1.6	2.1	1.21	1.46			
	3	14	80.8	0.94	1.4	1.7					
238	10	1	20.9	0.35	0.8	4.0	1.55	1.19	O	- 1.000	- 0.665
	32	2	24.1	0.40	1.2	5.1	1.67	1.53	N	- 0.197	- 1.596
	53	3	28.6	0.48	1.4	5.0	1.38	1.33	N	- 0.131	- 1.203
	60	4	32.5	0.54	1.4	4.4	1.68	1.83	N	0.153	- 0.791
	27	5	36.6	0.61	1.0	2.7	1.90	1.91	O	- 0.409	- 0.241
	27	6	40.4	0.67	1.0	2.5	1.82	1.78	O	- 0.963	1.150
	24	7	43.4	0.72	0.7	1.5	1.80	1.99	O	0.080	- 0.424
	6	8	45.3	0.75	0.4	0.9	1.50	1.96	O	- 2.450	6.000
	2	9	47.0	0.78	0.7	1.5			O	0.000	0.000
239	10	1	20.7	0.31	0.9	4.4	1.39	1.09	O	- 0.473	- 1.807
	25	2	23.6	0.35	1.2	4.9	1.64	1.22	O	0.188	- 1.081
	100	3	28.0	0.42	1.5	5.5	1.51	1.69	S	0.112	- 0.524
	56	4	32.3	0.48	1.3	4.0	1.76	1.86	N	0.033	- 0.586
	38	5	36.5	0.55	1.1	3.0	2.31	2.39	O	- 0.156	- 0.690
	19	6	40.5	0.61	0.7	1.7	1.65	1.80	O	0.000	- 0.430
	15	7	43.0	0.64	0.8	1.9	1.08	1.20	O	- 0.306	- 0.226
	11	8	44.7	0.67	0.8	1.7	1.31	1.33	O	- 0.329	- 0.878
	10	9	46.7	0.70	0.8	1.7			O	- 0.408	- 1.074

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
240	27	1	22.4	0.23	1.3	5.8	6.80	6.85			
	14	2	37.9	0.39	1.0	2.6	4.00	3.98			
	15	3	45.3	0.46	0.9	1.9	5.85	5.75			
	49	4	53.6	0.55	0.6	1.0	4.32	4.18			
	75	5	57.7	0.59	0.4	0.7	5.47	5.50			
	65	6	62.9	0.65	0.6	0.9	4.26	4.36			
	35	7	68.4	0.70	0.7	1.1	3.71	3.92			
	12	8	75.3	0.77	1.1	1.5	1.42	1.61			
	7	9	78.6	0.81	1.2	1.5	2.34	2.50			
	4	10	84.5	0.87	1.3	1.6	0.50	0.00			
	14	11	85.5	0.88	0.7	0.8	2.36	2.54			
	8	12	89.3	0.92	0.9	1.1	1.28	0.00			
	2	13	86.7	0.89	1.1	1.3	3.17	3.18			
	2	14	94.3	0.97	1.3	1.4					
241	18	1	18.8	0.19	1.2	6.5	6.37	6.39			
	16	2	33.7	0.35	1.1	3.3	4.71	4.82			
	7	3	45.7	0.47	1.4	3.1	3.51	3.43			
	13	4	53.6	0.55	0.8	1.5	2.02	2.20			
	10	5	57.9	0.59	1.3	2.3	3.63	3.66			
	8	6	65.7	0.67	0.8	1.3	3.77	3.69			
	11	7	72.1	0.74	0.9	1.2	2.55	2.67			
	7	8	76.9	0.79	1.0	1.3	2.90	2.84			
	7	9	81.4	0.83	0.5	0.7	1.46	1.89			
	4	10	84.4	0.87	1.5	1.8	0.14	0.00			
	4	11	84.1	0.86	0.6	0.7	2.65	2.62			
	3	12	87.3	0.90	0.6	0.7	1.42	1.83			
	2	13	91.0	0.93	2.0	2.2					
242	77	1	22.2	0.49	3.8	17.1	0.51	0.00			
	243	2	25.6	0.57	2.9	11.3	0.58	0.86			
	190	3	29.2	0.65	3.3	11.3	0.58	0.97			
	133	4	33.4	0.74	4.0	12.0	0.25	0.52			
	92	5	35.5	0.79	4.5	12.7	0.43	0.69			
	30	6	38.6	0.86	2.7	7.0	0.11	0.00			
	10	7	37.3	0.83	9.3	24.9	0.70	0.59			
	12	8	44.5	0.99	1.0	2.3	0.18	0.80			
	10	9	45.3	1.00	3.4	7.5	0.05	0.15			
	5	10	45.8	1.02	6.9	15.1	0.37	0.55			
	2	11	49.6	1.10	3.4	6.9	0.21	0.65			
	2	12	51.8	1.15	7.0	13.5					
243	21	1	16.7	0.50	1.7	10.2	1.17	0.59			
	70	2	21.5	0.64	2.4	11.2	0.53	0.96			
	46	3	24.1	0.72	2.5	10.4	0.46	0.72			
	19	4	26.0	0.77	1.6	6.2	0.53	1.00			
	7	5	27.7	0.82	1.6	5.8	0.85	0.88			
	8	6	31.1	0.92	2.4	7.7					
244	679	1	21.2	0.25	2.5	11.9	2.68	2.70			
	6[illegible]	2	36.3	0.42	3.1	8.6	1.94	1.96			
	636	3	47.9	0.56	2.8	5.9	1.30	1.41			
	483	4	55.4	0.64	3.0	5.4	1.06	1.31			
	290	5	61.8	0.72	3.1	5.0	0.85	1.14			
	160	6	66.7	0.77	2.7	4.1	0.70	1.24			
	72	7	70.4	0.82	2.6	3.7	0.59	1.13			
	32	8	73.3	0.85	2.4	3.2	0.84	1.49			
	10	9	77.0	0.89	2.1	2.7	0.85	1.49			
	3	10	80.3	0.93	1.7	2.2					
245	3	1	19.5	0.24	1.4	7.2	1.72	0.00			
	800	2	27.0	0.33	3.0	11.0	1.10	1.11			
	797	3	33.6	0.41	3.0	9.0	0.99	1.02			
	726	4	39.5	0.48	3.0	7.5	0.88	1.11			
	477	5	44.7	0.55	2.9	6.5	0.72	1.24			
	222	6	48.9	0.60	2.9	5.9	0.75	1.28			
	97	7	53.2	0.65	2.8	5.3	0.66	1.28			
	40	8	56.8	0.70	2.8	4.9	0.32	0.61			
	11	9	58.6	0.72	2.7	4.5	0.86	1.40			
	3	10	62.3	0.76	1.7	2.7					
246	26	1	21.7	0.31	1.6	7.4	1.79	1.81			
	34	2	29.4	0.42	2.7	9.2	1.41	2.00			
	7	3	37.3	0.53	2.9	7.8	1.26	1.45			
	3	4	43.1	0.61	1.7	3.9					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
247	18	1	22.7	0.38	1.6	7.1	1.71	1.50			
	41	2	29.9	0.50	2.6	8.7	2.33	2.54			
	13	3	41.1	0.68	2.2	5.4					
248	1	0	16.8	0.34	0.0	0.0	0.00	0.00			
	2	1	19.4	0.39	0.6	3.3	1.36	0.00			
	29	2	21.9	0.44	1.2	5.5	0.73	0.83			
	33	3	24.3	0.49	2.1	8.6	0.57	0.00			
	69	4	27.4	0.55	3.3	12.0	0.30	0.48			
	69	5	29.6	0.59	4.1	13.9	0.10	0.20			
	37	6	30.5	0.61	5.1	16.7	0.38	0.80			
	35	7	34.6	0.69	5.7	16.5	0.25	0.53			
	18	8	37.6	0.75	6.4	17.0	0.43	0.81			
	5	9	42.8	0.85	5.6	13.1	0.26	0.59			
	2	10	46.1	0.92	7.2	15.6					
249	11	1	16.9	0.51	1.9	11.3	1.04	0.00	O	0.098	0.619
	108	2	20.7	0.62	1.8	8.5	0.81	1.71	N	- 0.102	- 0.391
	28	3	23.8	0.72	2.1	8.6	0.70	1.42	N	- 0.280	- 0.838
	6	4	26.7	0.81	2.1	8.0			O	1.339	1.878
250	27	1	16.9	0.51	1.7	10.3	1.03	0.12	N	0.337	- 0.470
	180	2	20.6	0.62	1.8	8.6	0.86	1.24	N	0.120	0.134
	89	3	23.6	0.71	1.7	7.4	0.67	1.67	N	- 0.234	- 0.356
	27	4	26.6	0.80	2.7	10.1	0.12	0.22	N	0.541	- 0.457
	20	5	27.2	0.82	2.7	9.9			N	0.873	- 0.267
251	30	1	21.4	0.28	1.2	5.5	1.56	1.01	O	- 0.061	- 0.980
	135	2	25.6	0.34	1.5	5.8	1.39	1.36	N	- 0.344	- 0.819
	162	3	29.8	0.39	1.6	5.3	1.71	1.66	S	- 0.117	- 0.335
	203	4	35.8	0.47	1.9	5.4	1.56	1.85	N	0.122	- 0.735
	69	5	41.1	0.54	1.5	3.6	1.55	1.68	N	- 0.150	- 0.985
	39	6	45.5	0.60	1.3	2.9	1.78	1.90	N	- 0.193	- 0.160
	22	7	49.3	0.65	0.9	1.7	1.70	1.88	O	- 0.130	- 0.625
	11	8	52.1	0.69	0.8	1.6	1.39	1.24	O	- 0.538	0.637
	14	9	54.1	0.72	0.6	1.2	1.40	1.90	O	0.433	- 0.394
	3	10	55.8	0.74	0.6	1.0			O	1.732	0.000
252	21	1	21.6	0.28	1.3	5.9	1.52	0.86	O	- 0.411	- 0.833
	142	2	25.8	0.34	1.5	5.8	1.41	1.34	S	- 0.524	- 0.641
	179	3	29.9	0.40	1.5	4.9	1.84	1.82	S	- 0.082	- 0.499
	204	4	36.0	0.48	1.8	5.1	1.73	1.87	N	0.333	- 0.432
	88	5	41.4	0.55	1.3	3.1	1.44	1.62	S	- 0.455	- 0.663
	53	6	45.0	0.59	1.2	2.7	2.15	2.24	N	0.195	0.189
	23	7	49.5	0.65	0.9	1.8	1.68	1.82	O	- 0.352	- 0.644
	12	8	52.3	0.69	0.8	1.6	1.24	1.20	O	- 0.771	1.148
	12	9	54.2	0.72	0.7	1.2	0.00	0.00	O	0.439	- 0.337
	3	10	55.5	0.73	0.0	0.0			O	0.000	0.000
253	68	1	30.6	0.46	2.9	9.5	1.52	1.54	N	0.105	- 0.592
	66	2	39.6	0.59	3.0	7.5	1.28	1.29	N	- 0.311	- 0.712
	61	3	46.9	0.70	2.8	5.9	1.13	1.20	N	0.082	- 0.540
	49	4	52.8	0.79	2.5	4.7	1.07	1.32	N	- 0.473	- 0.323
	27	5	58.0	0.87	2.3	4.0	0.67	0.65	N	0.694	- 0.081
	30	6	61.3	0.92	2.7	4.5	0.68	0.62	N	0.547	- 0.459
	27	7	64.5	0.97	1.9	2.9	0.95	1.69	O	- 0.025	0.460
	7	8	68.1	1.02	2.0	2.9			O	- 0.277	0.042
254	22	1	13.6	0.28	2.0	14.9	2.08	2.08			
	22	2	22.5	0.46	2.2	10.0	1.89	1.88			
	22	3	30.3	0.62	1.9	6.3	1.43	1.41			
	22	4	35.2	0.73	1.5	4.2	0.72	0.95			
	22	5	38.2	0.79	2.7	7.1	0.72	0.66			
	18	6	41.2	0.85	1.4	3.5					
255	7	1	14.4	0.21	1.0	6.9	4.40	4.44			
	7	2	22.8	0.33	0.9	4.0	3.41	3.41			
	7	3	29.6	0.43	1.1	3.7	2.13	2.09			
	7	4	34.1	0.50	1.0	2.9	1.89	1.94			
	7	5	38.1	0.56	1.2	3.1	1.25	1.36			
	6	6	41.5	0.61	1.5	3.6	1.15	1.13			
	5	7	44.4	0.65	1.0	2.3					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
256	21	1	13.9	0.42	1.8	13.2	1.45	1.26			
	34	2	19.1	0.58	1.8	9.2	0.96	1.09			
	30	3	22.9	0.69	2.2	9.6	0.92	1.46			
	4	4	26.2	0.79	1.4	5.3					
257	3	1	14.6	0.39	1.7	11.9	1.45	0.58			
	36	2	19.7	0.53	1.8	9.1	1.14	1.33			
	24	3	24.0	0.65	2.0	8.2	0.61	1.43			
	8	4	26.9	0.73	2.8	10.5	0.40	0.57			
	3	5	28 6	0.77	1.4	4.9					
258	22	1	9.5	0.16	1.0	11.0	2.99	2.98			
	22	2	16.6	0.27	1.4	8.1	2.36	2.37			
	22	3	23.7	0.39	1.7	7.0	1.71	1.80			
	22	4	31.2	0.52	2.7	8.7	0.95	0.96			
	21	5	36.1	0.60	2.6	7.1	1.16	1.10			
	14	6	39.9	0.66	0.7	1.8	1.70	1.81			
	9	7	42.6	0.70	0.8	2.0	0.00	0.00			
	5	8	45.2	0.75	0.0	0.0					
259	7	1	11.1	0.24	1.7	15.6	2.58	2.56			
	7	2	20.3	0.44	1.9	9.3	1.94	1.86			
	7	3	26.2	0.56	1.1	4.3	1.85	1.95			
	7	4	31.7	0.68	1.9	6.0	1.30	1.22			
	7	5	35.5	0.76	1.0	2.8	0.00	0.00			
	2	6	39.9	0.86	0.0	0.0					
260	206	1	17.3	0.47	1.6	9.5	1.58	2.08	S	0.316	- 0.529
	36	2	22.2	0.61	1.5	6.5	1.30	1.65	N	0.057	- 0.381
	12	3	25.6	0.70	1.2	4.6			O	0.588	0.362
261	243	1	18.1	0.45	1.5	8.5	1.50	1.96	N	- 0.195	- 0.286
	53	2	22.3	0.56	1.3	5.8	1.31	1.62	S	0.094	0.040
	24	3	25.7	0.64	1.3	4.9	0.99	1.58	O	0.883	0.593
	5	4	27.8	0.69	0.8	3.0			O	0.512	- 0.612
262	123	1	13.3	0.54	1.8	13.9	0.82	0.76	N	- 0.650	0.867
	115	2	16.0	0.64	1.5	9.1	0.86	1.66	N	0.495	0.273
	31	3	18.5	0.74	1.5	8.0	0.60	1.02	N	0.596	0.630
	10	4	20.0	0.81	1.1	5.4	0.50	0.93	O	- 1.323	2.816
	5	5	21.1	0.85	1.1	5.4			O	- 0.405	- 0.178
263	27	1	12.4	0.67	1.3	10.6	1.20	1.14	O	- 0.776	1.530
	27	2	15.4	0.83	1.2	7.7	0.44	0.84	O	- 0.366	0.220
	19	3	16.5	0.89	1.2	7.4	0.31	0.57	O	- 0.093	1.066
	16	4	17.2	0.93	1.2	7.0	0.39	0.75	O	- 0.375	0.963
	9	5	18.2	0.98	1.3	7.3			O	- 0.879	0.735
264	33	1	15.0	0.65	2.7	18.2	0.85	0.88	N	- 0.654	- 0.152
	23	2	18.5	0.80	1.5	8.2	0.32	0.53	O	0.174	- 0.113
	9	3	19.4	0.84	1.2	6.0	0.58	0.77	O	0.267	0.542
	8	4	20.9	0.90	1.4	6.7	0.52	0.92	O	1.158	0.483
	5	5	22.3	0.97	1.3	5.9			O	1.714	2.664
265	12	0	11.5	0.43	2.5	21.7	1.62	1.52			
	16	1	18.3	0.69	1.7	9.3	0.29	0.65			
	16	2	19.5	0.73	2.5	12.8	0.90	0.76			
	18	3	23.2	0.87	1.6	6.9	0.43	0.69			
	11	4	24.4	0.91	1.2	4.9					
266	44	1	14.9	0.36	2.9	19.5	1.56	1.52			
	45	2	23.3	0.56	2.5	10.7	1.09	1.56			
	14	3	28.3	0.68	2.1	7.4					
267	21	2	15.6	0.37	3.7	23.7	1.53	1.35			
	34	3	24.3	0.58	2.0	8.2	1.56	1.75			
	5	4	28.2	0.67	0.5	1.8					
268	15	1	12.7	0.30	2.3	18.1	1.11	1.30			
	10	2	17.8	0.42	2.3	12.9	1.64	1.52			
	14	3	25.0	0.60	2.1	8.4	0.81	1.19			
	5	4	27.6	0.66	1.1	4.0					
269	27	1	15.8	0.38	1.7	10.8	1.68	1.65			
	35	2	22.5	0.54	2.3	10.2	0.67	0.61			
	37	3	25.5	0.61	2.2	8.6	1.29	1.41			
	17	4	29.9	0.71	1.2	4.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
270	12	1	8.8	0.21	1.5	17.1	1.39	0.40			
	94	2	15.2	0.36	3.1	20.4	1.60	1.65			
	66	3	23.7	0.57	2.2	9.3	0.97	1.00			
	52	4	27.3	0.65	1.5	5.5	0.32	0.60			
	7	5	28.3	0.68	1.6	5.7					
271	42	1	17.5	0.42	2.3	13.1	0.79	0.13			
	118	2	21.2	0.51	2.4	11.3	1.16	1.25			
	68	3	25.6	0.61	1.4	5.5					
273	26	0	13.3	0.33	1.3	9.7	1.73	1.16	N	0.099	- 0.483
	152	1	19.1	0.47	2.1	10.8	0.97	0.92	N	0.041	- 0.485
	166	2	23.0	0.56	2.0	8.5	1.58	2.01	S	0.518	0.945
	35	3	28.4	0.70	1.5	5.2	0.92	1.22	N	- 0.342	- 0.405
	18	4	30.9	0.76	1.3	4.1	0.78	1.19	O	- 0.481	0.768
	8	5	32.6	0.80	0.9	2.8			O	- 0.488	0.421
274	6	1	42.7	0.44	2.0	4.6	0.81	0.66	O	- 1.438	3.603
	8	2	46.0	0.47	2.1	4.7	0.99	0.00	O	0.468	- 0.831
	47	3	51.0	0.53	2.9	5.8	0.55	0.51	N	0.264	- 0.062
	48	4	54.2	0.56	2.8	5.2	0.83	1.68	N	0.267	- 0.499
	14	5	59.9	0.62	4.1	6.8	0.70	0.99	N	0.347	- 0.788
	7	6	64.4	0.66	2.5	3.9			O	0.740	1.493
275	35	1	40.2	0.46	1.7	4.2	0.94	0.06	O	- 0.640	1.466
	147	2	43.9	0.50	2.2	5.1	0.59	0.89	N	0.281	0.013
	119	3	46.9	0.54	2.8	5.9	0.81	1.19	S	0.906	1.940
	73	4	51.8	0.60	3.3	6.4	0.45	0.96	N	- 0.035	0.149
	45	5	55.1	0.63	3.9	7.1	0.09	0.18	N	0.854	0.173
	38	6	55.8	0.64	3.7	6.6	0.67	1.22	N	- 0.126	0.102
	18	7	60.7	0.70	3.6	5.9	0.38	0.98	O	0.142	1.135
	5	8	64.2	0.74	5.8	9.0			O	- 1.008	2.550
276	36	0	8.4	0.24	1.3	15.2	1.78	1.42	N	0.097	- 0.993
	134	1	15.7	0.44	2.8	18.1	1.28	1.52	N	0.024	- 0.265
	74	2	23.0	0.65	2.9	12.5	0.51	0.94	N	- 0.453	- 0.253
	33	3	25.7	0.72	2.5	9.6	0.81	1.26	N	0.707	2.061
	7	4	28.8	0.81	1.4	4.8			O	- 0.706	- 0.326
277	38	0	8.3	0.19	1.3	15.3	1.70	1.26	N	0.115	- 0.979
	164	1	14.9	0.34	2.6	17.5	1.06	1.53	N	0.034	- 0.567
	73	2	21.3	0.48	3.4	16.1	0.94	0.96	S	- 0.319	- 0.711
	59	3	26.9	0.61	2.5	9.4	0.41	0.75	N	- 0.238	- 0.529
	11	4	28.9	0.65	2.3	8.1			S	- 0.250	- 2.008
278	36	1	8.4	0.24	1.3	15.2	1.78	1.42			
	134	2	15.7	0.44	2.8	18.1	1.28	1.52			
	74	3	23.0	0.65	2.9	12.5	0.51	0.94			
	33	4	25.7	0.72	2.5	9.6	0.81	1.26			
	7	5	28.8	0.81	1.4	4.8					
279	38	1	8.3	0.19	1.3	15.3	1.70	1.26			
	164	2	14.9	0.34	2.6	17.5	1.06	1.53			
	73	3	21.3	0.48	3.4	16.1	0.94	0.96			
	59	4	26.9	0.61	2.5	9.4	0.41	0.75			
	11	5	28.9	0.65	2.3	8.1					
280	6	5	24.3	0.36	1.0	4.3	0.58	0.00	O	- 0.968	- 1.875
	21	6	25.8	0.39	1.5	6.0	0.80	0.39	O	- 0.287	- 0.757
	39	7	28.2	0.42	1.5	5.3	1.13	1.07	N	- 0.766	0.678
	42	8	31.5	0.47	1.4	4.5	0.63	0.93	N	- 0.251	- 0.877
	31	9	33.4	0.50	1.6	4.8	0.99	1.00	N	- 0.582	- 0.260
	28	10	36.4	0.54	1.4	3.9	0.72	0.63	N	- 0.099	- 0.985
	31	11	38.4	0.57	1.4	3.7	0.69	0.77	N	0.266	- 0.596
	30	12	40.6	0.61	1.8	4.3	0.64	0.86	N	- 0.011	- 0.280
	21	13	42.8	0.64	1.6	3.7	0.61	0.89	O	- 0.747	0.231
	8	14	44.3	0.66	0.9	2.0	1.44	1.24	O	1.026	1.851
	14	15	46.5	0.69	0.7	1.5	0.33	1.04	O	1.068	0.352
	6	16	47.3	0.71	1.6	3.4	0.62	0.32	O	- 0.542	- 1.024
	8	17	48.8	0.73	1.0	2.0			O	0.456	- 2.390

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
281	3	1	21.3	0.10	3.2	15.1	0.93	0.00	O	1.545	0.000
	17	2	27.8	0.14	3.8	13.5	1.50	1.01	N	0.156	- 0.125
	72	3	39.0	0.19	3.7	9.5	0.97	0.81	N	0.111	0.204
	103	4	46.8	0.23	4.5	9.6	0.8[illegible]	0.62	N	0.528	0.080
	172	5	55.6	0.27	5.3	9.5	0.76	1.04	N	0.291	- 0.264
	113	6	63.8	0.31	5.2	8.1	0.83	1.12	N	0.181	- 0.527
	69	7	72.3	0.35	5.1	7.0	0.75	1.09	N	0.572	- 0.082
	46	8	80.5	0.39	5.9	7.3	0.55	1.17	N	0.282	- 0.219
	24	9	87.4	0.43	6.7	7.7	0.49	1.04	N	0.206	- 1.554
	13	10	94.5	0.46	7.7	8.1	0.41	0.60	N	- 0.636	- 0.377
	9	11	99.8	0.49	5.2	5.2	0.53	1.00	O	0.009	0.515
	7	12	106.7	0.52	8.0	7.5	0.57	1.21	O	- 0.030	0.314
	2	13	116.5	0.57	9.2	7.9	0.26	0.00	O	0.000	0.000
	3	14	119.7	0.58	3.1	2.6	0.00	0.00	O	0.935	0.000
	3	15	119.7	0.58	4.9	4.1			O	- 1.652	0.000
282	23	0	9.6	0.09	5.6	58.6	0.79	0.25			
	54	1	18.4	0.18	5.6	30.5	0.96	1.02			
	54	2	30.5	0.30	7.1	23.2	0.68	0.86			
	54	3	42.7	0.42	10.7	25.1	0.38	0.47			
	54	4	51.3	0.51	12.2	23.8	0.40	0.58			
	36	5	59.2	0.59	7.6	12.8	0.30	0.54			
	36	6	65.3	0.65	9.6	14.8	0.34	0.29			
	36	7	71.7	0.71	8.9	12.4	0.22	0.45			
	11	8	75.8	0.75	9.3	12.3	0.22	0.14			
	11	9	79.8	0.79	8.6	10.8					
283	38	1	4.1	0.11	0.4	8.9	2.84	3.01	O	- 0.355	0.191
	29	2	6.4	0.16	0.5	7.0	1.37	1.35	O	0.296	2.921
	45	3	8.0	0.21	0.7	8.8	1.17	0.85	S	- 0.440	0.879
	111	4	9.4	0.24	0.5	5.7	0.65	1.67	N	- 0.008	- 0.127
	29	5	10.3	0.27	0.9	8.3	0.94	1.40	N	0.399	0.086
	16	6	12.5	0.32	1.4	11.3	0.30	0.00	N	0.075	- 0.633
	31	7	13.3	0.34	1.2	8.7	0.64	0.09	N	0.104	- 0.004
	63	8	14.8	0.38	1.2	8.4	0.58	0.65	S	0.031	- 0.713
	55	9	16.1	0.41	1.1	6.6	0.55	0.66	N	0.144	- 0.527
	53	10	17.4	0.45	1.2	7.1	0.07	0.08	N	0.459	- 0.393
	36	11	17.5	0.45	1.0	5.6	0.80	1.23	N	0.752	- 0.037
	25	12	19.6	0.50	1.6	8.4			N	0.608	0.023
284	17	2	7.2	0.24	0.3	4.2	1.64	1.33	O	0.020	0.235
	40	3	8.1	0.27	0.3	3.3	1.38	1.10	O	- 0.126	- 0.225
	105	4	9.4	0.31	0.7	7.2	1.09	0.88	N	0.043	- 0.933
	170	5	11.0	0.36	0.7	6.7	0.74	0.68	S	- 1.030	0.852
	180	6	12.1	0.40	0.8	6.9	0.91	0.72	S	0.785	0.975
	244	7	13.7	0.45	0.8	6.1	0.88	0.84	S	0.484	- 0.331
	246	8	15.2	0.50	0.9	5.9	0.51	0.67	S	0.096	- 1.076
	172	9	16.0	0.53	0.7	4.2	1.05	1.81	S	- 0.013	- 0.560
	34	10	17.3	0.57	0.6	3.5	0.35	0.66	O	1.544	2.579
	25	11	17.7	0.59	0.6	3.6	0.35	0.63	O	1.657	2.978
	18	12	18.1	0.60	0.5	2.9			O	0.163	- 0.103
285		1	6.1	0.18	0.7	11.7	3.24				
		2	12.2	0.36	1.2	9.6	1.89				
		3	16.5	0.49	1.2	7.0	1.50				
		4	20.7	0.61	1.6	7.8	0.87				
		5	23.4	0.69	1.4	6.1					
286		1	5.8	0.15	0.8	13.5	3.17				
		2	12.0	0.31	1.2	9.6	2.00				
		3	17.3	0.44	1.5	8.7	0.81				
		4	21.3	0.54	3.4	15.8	0.46				
		5	24.8	0.63	4.4	17.7	0.30				
		6	27.4	0.70	4.3	15.6					
287		1	5.9	0.17	0.6	10.8	3.54				
		2	11.7	0.33	1.0	8.4	1.99				
		3	15.6	0.44	1.0	6.3	1.37				
		4	20.5	0.58	2.6	12.6	0.49				
		5	22.9	0.65	2.5	10.7					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
288		1	5.3	0.13	0.8	15.0	3.06				
		2	11.6	0.29	1.3	11.1	1.84				
		3	16.5	0.42	1.4	8.2	1.54				
		4	21.1	0.53	1.6	7.6	0.98				
		5	24.6	0.62	2.0	8.3	0.62				
		6	27.2	0.69	2.0	7.5					
289	33	2	15.7	0.43	1.2	7.3	2.20	2.17			
	48	3	22.8	0.63	2.1	9.1	0.68	1.01			
	41	4	26.4	0.73	3.2	12.1	0.81	1.09			
	20	5	30.8	0.85	2.2	7.3					
290	17	2	17.0	0.47	1.2	7.3	1.60	1.13			
	67	3	22.9	0.63	2.5	10.7	1.05	1.50			
	21	4	27.4	0.76	1.8	6.7	0.78	1.15			
	13	5	30.5	0.84	2.2	7.1					
291	31	2	17.1	0.47	1.7	9.8	1.62	1.50			
	46	3	23.1	0.64	2.0	8.8	1.30	1.77			
	12	4	28.0	0.78	1.7	6.2					
292	42	2	24.8	0.69	1.3	5.2	1.19	1.38			
	33	3	28.4	0.79	1.7	6.1					
293	26	3	26.6	0.74	2.6	9.6	0.34	0.43			
	27	4	28.5	0.79	3.1	11.0	0.52	0.80			
	10	5	31.1	0.86	1.9	6.1					
294	15	2	21.4	0.59	1.6	7.2	1.25	1.03			
	28	3	26.0	0.72	2.1	8.2					
295	38	2	21.1	0.58	1.9	8.8	1.13	1.14			
	47	3	26.3	0.73	2.7	10.4	0.75	0.91			
	26	4	29.5	0.82	1.5	5.2	0.60	0.52			
	34	5	31.8	0.88	2.3	7.3					
296	10	1	16.5	0.46	1.6	9.6	1.70	1.14			
	62	2	21.9	0.61	1.6	7.3	1.48	1.44			
	79	3	26.9	0.74	1.8	6.6	0.70	1.57			
	22	4	29.8	0.83	2.4	7.9	0.33	0.47			
	11	5	31.0	0.86	1.3	4.3	0.40	0.00			
	17	6	32.2	0.89	1.7	5.1					
297	33	2	21.7	0.60	1.7	7.9	1.37	1.34			
	38	3	26.6	0.74	1.9	7.0					
298	26	2	16.0	0.52	1.5	9.6	1.72	1.76			
	30	3	22.4	0.73	2.2	9.8	0.55	0.37			
	39	4	25.0	0.81	2.5	10.0	0.13	0.20			
	12	5	25.6	0.83	2.1	8.1					
299	19	2	16.5	0.53	0.9	5.3	2.39	2.41			
	27	3	22.3	0.72	1.6	7.0					
300	35	2	16.9	0.55	1.2	7.0	2.53	2.63			
	24	3	23.6	0.76	1.5	6.2	0.66	0.82			
	18	4	25.4	0.82	1.3	5.0	0.72	1.02			
	10	5	27.0	0.87	1.0	3.5					
301	14	2	19.4	0.63	2.3	11.6	1.30	1.11			
	21	3	24.1	0.78	1.4	5.7	0.58	0.88			
	20	4	26.2	0.85	2.2	8.6					
302	18	2	19.9	0.64	1.3	6.4	1.11	1.26			
	17	3	23.6	0.76	2.1	8.7					
303	13	1	14.1	0.46	0.7	5.1	2.23	2.08			
	29	2	20.5	0.66	2.2	10.5	1.04	0.51			
	80	3	25.5	0.83	2.7	10.5	0.36	0.60			
	45	4	27.2	0.88	2.0	7.4	0.60	1.24			
	15	5	29.8	0.97	2.3	7.8					
304	56	2	20.8	0.67	2.3	10.8	0.76	0.58			
	76	3	24.5	0.79	2.6	10.7	0.66	1.07			
	36	4	27.4	0.89	1.8	6.6	0.15	0.17			
	19	5	27.8	0.90	0.9	3.1	0.69	1.03			
	19	6	29.6	0.96	1.7	5.9					
305	12	1	15.5	0.50	1.4	9.0	1.43	1.29			
	20	2	20.7	0.67	2.2	10.8	0.99	1.07			
	16	3	24.9	0.81	2.0	8.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
306	16	2	19.1	0.32	1.8	9.2	1.22	0.80	N	0.265	- 0.604
	46	3	25.6	0.43	3.6	14.1	0.58	0.08	N	0.802	0.400
	83	4	30.3	0.51	4.6	15.0	0.35	0.70	N	0.248	- 0.353
	50	5	33.6	0.56	4.7	13.9	0.31	0.66	N	0.220	- 0.830
	21	6	36.7	0.61	5.5	14.8	0.30	0.44	N	0.308	- 1.067
	13	7	39.2	0.65	2.8	7.3			O	- 0.896	- 0.436
307	41	3	27.3	0.43	3.4	12.6	0.61	0.00	N	0.617	0.426
	88	4	31.8	0.50	4.0	12.5	0.35	0.50	N	0.427	0.413
	86	5	34.8	0.54	4.7	13.4	0.65	0.97	S	0.236	0.403
	55	6	40.7	0.63	4.3	10.6	0.37	0.81	N	0.246	0.816
	33	7	44.3	0.69	5.2	11.8	0.41	0.82	N	- 0.207	- 0.612
	22	8	48.6	0.76	5.3	10.9	0.23	0.44	N	- 0.515	0.137
	16	9	50.9	0.79	4.8	9.4	0.22	0.04	N	- 0.184	0.896
	15	10	52.7	0.82	3.3	6.3			O	- 1.393	2.000
308	17	2	23.7	0.40	1.7	7.4	0.83	0.00	O	0.420	0.688
	77	3	29.0	0.48	4.6	16.0	0.32	0.00	S	0.321	- 0.582
	120	4	32.1	0.54	5.1	16.0	0.26	0.53	N	0.477	- 0.376
	45	5	34.9	0.58	5.5	15.8	0.37	0.60	N	0.256	- 0.909
	19	6	38.2	0.64	3.6	9.5	0.18	0.00	N	- 0.619	0.811
	9	7	36.5	0.61	5.9	16.2			O	0.174	- 0.259
309	13	2	25.0	0.39	2.5	9.9	0.80	0.00	N	0.279	- 0.815
	70	3	30.1	0.47	3.9	12.8	0.57	0.21	N	0.399	1.627
	110	4	35.1	0.55	4.9	13.9	0.42	0.86	N	- 0.016	- 0.416
	77	5	39.4	0.61	5.3	13.5	0.35	0.74	N	- 0.031	- 0.071
	46	6	43.3	0.67	6.0	13.7	0.35	0.67	N	- 0.494	0.476
	22	7	47.4	0.74	5.6	11.9	0.05	0.09	N	- 0.351	- 1.173
	14	8	47.9	0.75	4.8	10.1			N	- 0.408	- 1.020
310	50	5	35.0	0.64	1.3	3.8	0.38	0.75	N	0.053	1.127
	44	6	36.2	0.66	1.8	5.0	0.78	0.72	S	- 0.590	- 0.608
	41	7	38.7	0.70	1.4	3.6	0.93	1.01	N	- 0.992	1.972
	38	8	41.3	0.75	1.5	3.6	0.46	0.88	N	0.007	- 0.182
	29	9	42.9	0.78	1.8	4.2	0.74	0.94	N	- 0.674	1.118
	23	10	45.7	0.83	2.1	4.5	0.53	0.68	N	- 0.256	0.741
	17	11	47.7	0.87	1.5	3.2	0.72	1.30	N	- 0.022	- 1.158
	4	12	49.7	0.90	1.3	2.7			O	- 0.370	- 3.901
311	16	1	9.5	0.23	1.0	10.2	1.35	1.45	O	- 0.253	- 0.735
	19	2	13.5	0.32	2.0	14.7	0.92	1.16	N	- 1.080	1.772
	13	3	17.2	0.41	2.1	12.4	0.03	0.00	O	0.626	0.792
	12	4	17.1	0.41	2.4	14.0	1.67	1.46	O	0.074	- 0.405
	25	5	24.5	0.59	2.1	8.4	0.13	0.29	N	0.031	- 0.935
	27	6	25.2	0.60	3.2	12.7	0.57	0.66	N	- 0.410	- 1.083
	26	7	29.1	0.70	3.7	12.6	0.35	0.52	N	0.431	- 0.511
	20	8	31.4	0.75	2.8	8.9	0.23	0.00	N	- 0.064	- 1.030
	29	9	32.7	0.78	3.0	9.2	0.41	0.27	N	- 0.445	0.035
	28	10	34.8	0.83	2.2	6.2	0.13	0.00	N	- 0.569	- 0.410
	11	11	34.3	0.82	1.9	5.5	0.06	0.00	O	- 0.476	- 0.777
	3	12	34.0	0.81	3.0	8.8	0.63	0.33	O	0.000	0.000
	5	13	36.6	0.88	1.1	3.1			O	- 0.405	- 0.178
312	16	1	9.5	0.24	1.0	10.0	1.33	1.47			
	19	2	13.4	0.34	2.0	14.8	1.43	1.52			
	13	3	18.6	0.47	1.7	8.9	0.18	0.00			
	12	4	17.7	0.45	3.4	19.2	1.39	1.12			
	25	5	25.5	0.65	2.2	8.8	0.12	0.22			
	27	6	26.1	0.67	2.9	11.0	0.63	0.63			
	26	7	29.6	0.76	2.7	9.3	0.32	0.62			
	20	8	31.4	0.80	2.9	9.1	0.10	0.00			
	29	9	32.0	0.82	3.1	9.7	0.36	0.23			
	28	10	33.9	0.86	2.3	6.6	0.16	0.31			
	11	11	34.6	0.88	2.1	5.9	0.12	0.00			
	3	12	34.0	0.87	3.0	8.8	0.63	0.33			
	5	13	36.6	0.93	1.1	3.1					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
313		1	7.4	0.15	1.4	19.2	1.55				
		2	12.7	0.26	2.0	15.8	0.91				
		3	16.8	0.35	2.5	14.8	0.57				
		4	20.6	0.42	4.2	20.4	0.39				
		5	24.1	0.50	4.8	20.0	0.39				
		6	27.6	0.57	4.2	15.2	0.47				
		7	31.1	0.64	3.3	10.6	0.24				
		8	32.8	0.68	3.8	11.6	0.20				
		9	34.4	0.71	4.3	12.4					
314		1	7.2	0.15	1.5	20.8	1.44				
		2	12.9	0.26	2.5	19.2	0.80				
		3	16.9	0.35	2.5	14.9	0.59				
		4	20.2	0.41	3.1	15.4	0.36				
		5	22.5	0.46	3.3	14.6	0.42				
		6	25.4	0.52	3.6	14.3	0.35				
		7	27.6	0.57	2.7	9.7					
315	137	6	35.5	0.65	2.6	7.4	0.35	0.00			
	378	7	37.3	0.68	2.5	6.7	0.43	0.60			
	357	8	39.6	0.72	2.9	7.3	0.52	0.90			
	238	9	42.6	0.77	2.8	6.6	0.29	0.57			
	128	10	44.2	0.80	2.7	6.1	0.33	0.63			
	52	11	45.9	0.83	2.5	5.4	0.35	0.72			
	23	12	47.7	0.87	2.6	5.5					
316	91	6	35.8	0.65	3.0	8.5	0.42	0.00			
	383	7	38.3	0.70	3.0	7.7	0.28	0.14			
	428	8	40.0	0.73	3.1	7.8	0.50	0.96			
	236	9	43.0	0.78	2.9	6.8	0.42	0.82			
	117	10	45.4	0.83	2.8	6.2	0.38	0.67			
	33	11	47.3	0.86	2.2	4.7					
317	39	6	35.5	0.65	1.7	4.7	0.53	0.00			
	161	7	37.9	0.69	2.9	7.6	0.36	0.00			
	284	8	40.1	0.73	3.3	8.2	0.25	0.00			
	331	9	41.7	0.76	3.0	7.2	0.33	0.70			
	212	10	43.8	0.80	3.4	7.8	0.34	0.61			
	76	11	45.9	0.83	2.8	6.1	0.52	1.00			
	18	12	48.7	0.89	2.5	5.2					
318	17	6	33.9	0.62	1.3	3.8	0.62	0.00			
	125	7	35.9	0.65	2.0	5.5	0.41	0.00			
	213	8	37.7	0.69	2.4	6.3	0.44	0.00			
	314	9	39.9	0.73	2.7	6.7	0.34	0.08			
	375	10	41.7	0.76	2.6	6.2	0.31	0.62			
	235	11	43.3	0.79	2.6	6.1	0.24	0.53			
	109	12	44.7	0.81	3.2	7.2	0.38	0.69			
	46	13	46.9	0.85	2.6	5.5	0.26	0.54			
	24	14	48.3	0.88	2.7	5.7					
319	26	7	33.0	0.60	1.0	3.0	0.63	0.40			
	41	8	34.6	0.63	1.6	4.5	0.34	0.06			
	53	9	35.8	0.65	2.0	5.5	0.31	0.62			
	34	10	37.0	0.67	1.9	5.1	0.07	0.16			
	18	11	37.3	0.68	2.3	6.2					
320	50	5	33.6	0.61	1.7	5.0	0.37	0.00			
	118	6	34.9	0.63	1.8	5.3	0.49	0.00			
	202	7	36.7	0.67	1.8	5.0	0.58	0.38			
	279	8	39.1	0.71	2.3	5.8	0.41	0.31			
	334	9	41.2	0.75	2.8	6.8	0.36	0.57			
	300	10	43.3	0.79	3.0	6.9	0.24	0.50			
	241	11	44.8	0.81	3.3	7.4	0.24	0.45			
	103	12	46.3	0.84	3.1	6.6	0.35	0.72			
	40	13	48.5	0.88	3.1	6.5	0.15	0.29			
	23	14	49.4	0.90	2.7	5.5					
321	33	6	35.1	0.64	2.5	7.2	0.44	0.00			
	175	7	37.2	0.68	2.2	5.9	0.31	0.00			
	249	8	38.8	0.71	3.0	7.6	0.44	0.91			
	177	9	41.6	0.76	3.4	8.1	0.18	0.33			
	133	10	42.7	0.78	2.9	6.8	0.43	0.86			
	76	11	45.2	0.82	2.9	6.3	0.18	0.38			
	47	12	46.3	0.84	3.1	6.7	0.27	0.51			
	23	13	47.9	0.87	2.8	5.8					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
322	29	5	33.4	0.61	1.6	4.9	0.81	0.00			
	100	6	36.6	0.67	2.4	6.4	0.38	0.00			
	244	7	38.4	0.70	2.5	6.4	0.33	0.69			
	188	8	40.1	0.73	2.7	6.8	0.36	0.73			
	105	9	42.1	0.77	2.8	6.6	0.59	0.97			
	45	10	44.8	0.81	1.8	4.0	0.12	0.28			
	31	11	45.3	0.82	2.2	4.9	0.33	0.67			
	20	12	46.8	0.85	2.3	4.9					
323	40	5	34.6	0.63	1.8	5.2	0.43	0.00			
	154	6	36.4	0.66	2.4	6.5	0.46	0.00			
	273	7	38.8	0.71	2.8	7.3	0.44	0.57			
	259	8	41.4	0.75	3.1	7.4	0.29	0.58			
	151	9	43.2	0.79	3.2	7.5	0.16	0.37			
	72	10	44.4	0.81	4.1	9.2	0.42	0.71			
	32	11	47.3	0.86	2.8	5.9					
324	37	5	33.2	0.60	2.2	6.5	0.65	0.00			
	171	6	36.1	0.66	2.3	6.5	0.51	0.00			
	391	7	38.6	0.70	2.6	6.8	0.42	0.38			
	409	8	40.8	0.74	2.7	6.5	0.44	0.90			
	266	9	43.2	0.79	2.7	6.3	0.30	0.59			
	138	10	44.8	0.81	2.7	5.9	0.39	0.75			
	64	11	46.8	0.85	2.5	5.4	0.31	0.71			
	23	12	48.6	0.88	3.3	6.7	0.17	0.00			
	28	13	49.6	0.90	2.7	5.4	0.14	0.30			
	16	14	50.4	0.92	2.9	5.8					
325	23	5	31.4	0.57	1.7	5.5	0.48	0.00			
	58	6	33.1	0.60	1.8	5.4	0.43	0.51			
	61	7	34.8	0.63	2.2	6.2	0.18	0.32			
	48	8	35.5	0.65	1.7	4.7	0.05	0.00			
	23	9	35.3	0.64	2.7	7.5					
326	24	5	34.6	0.63	2.1	6.1	0.57	0.00			
	117	6	37.2	0.68	2.5	6.6	0.50	0.00			
	485	7	39.8	0.72	2.7	6.8	0.22	0.00			
	659	8	41.1	0.75	3.2	7.7	0.39	0.79			
	466	9	43.6	0.79	3.3	7.6	0.28	0.54			
	263	10	45.4	0.83	3.1	6.7	0.22	0.42			
	116	11	46.7	0.85	2.9	6.1	0.31	0.67			
	66	12	48.6	0.88	3.4	6.9	0.10	0.18			
	38	13	49.2	0.89	2.7	5.5	0.32	0.59			
	16	14	50.8	0.92	2.3	4.5					
327	84	6	34.4	0.63	1.6	4.6	0.27	0.00			
	198	7	35.3	0.64	1.7	4.8	0.33	0.29			
	214	8	36.5	0.66	1.9	5.3	0.23	0.47			
	101	9	37.4	0.68	1.9	5.2	0.23	0.47			
	88	10	38.3	0.70	1.9	5.1	0.41	0.82			
	39	11	39.9	0.73	2.0	4.9	0.24	0.41			
	16	12	40.7	0.74	1.4	3.4					
328	21	5	34.0	0.62	3.5	10.4	0.40	0.00			
	105	6	36.5	0.66	2.7	7.3	0.39	0.00			
	296	7	38.8	0.71	3.3	8.4	0.37	0.12			
	353	8	41.2	0.75	3.3	7.9	0.29	0.58			
	203	9	43.1	0.78	3.4	7.8	0.46	0.80			
	84	10	45.8	0.83	2.5	5.4	0.23	0.52			
	29	11	47.1	0.86	3.3	6.9	0.09	0.18			
	19	12	47.7	0.87	3.3	6.9					
329	60	6	33.4	0.61	1.7	5.0	0.39	0.00			
	161	7	34.7	0.63	1.6	4.7	0.28	0.61			
	136	8	35.7	0.65	2.0	5.6	0.12	0.25			
	79	9	36.2	0.66	2.1	5.8	0.33	0.66			
	36	10	37.6	0.68	2.1	5.7					
330	45	1	4.4	0.13	1.6	35.2	2.67	2.58			
	83	2	12.9	0.38	1.6	12.6	1.63	2.04			
	23	3	18.3	0.54	1.7	9.3	0.00	0.00			
	3	4	22.9	0.68	0.0	0.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
34	8	2	22.5	0.45	1.4	6.3	1.09	1.13	O	0.000	- 2.286
	7	3	25.4	0.51	1.3	5.0	0.55	0.55	O	0.222	- 1.715
	7	4	26.9	0.54	1.4	5.0	1.04	0.74	O	0.353	- 0.303
	13	5	30.2	0.60	1.8	6.0	0.48	0.88	N	0.714	- 0.808
	10	6	32.1	0.64	2.3	7.1	1.02	1.10	O	0.618	- 1.165
	6	7	35.7	0.71	1.2	3.4	0.88	0.58	O	- 0.075	- 1.550
	11	8	37.5	0.75	0.8	2.2	0.52	0.37	O	- 1.153	- 0.254
	14	9	38.4	0.77	0.9	2.4	0.53	0.97	O	- 0.185	- 0.790
	13	10	39.8	0.80	1.7	4.4	0.32	0.52	O	0.417	- 1.789
	8	11	40.8	0.82	1.3	3.1			O	- 0.475	- 1.546
35		0	12.6	0.24	1.1	8.7	0.44		S	0.386	0.410
		1	14.2	0.27	2.7	18.7	1.47		S	0.474	- 0.892
		2	20.3	0.39	1.5	7.3	0.81		S	0.321	- 0.340
		3	23.1	0.44	2.0	8.5	1.02		S	0.358	- 0.147
		4	29.0	0.56	3.8	13.2	0.80		S	0.106	- 1.343
		5	33.7	0.65	2.0	6.1	0.25		S	- 0.574	1.515
		6	34.7	0.67	1.9	5.6	0.50		S	0.504	- 0.415
		7	36.6	0.70	1.9	5.1	0.86		S	- 0.360	0.334
		8	39.2	0.75	1.2	3.1	1.78		S	0.763	0.840
		9	43.2	0.83	1.0	2.3			O	- 0.320	- 1.898
36	379	1	17.1	0.41	2.3	13.6	0.88	1.89	S	- 0.071	- 0.776
	27	2	21.6	0.52	2.8	12.7	0.86	0.04	N	- 0.807	0.389
	206	3	25.5	0.61	1.8	7.0	0.73	0.56	S	0.870	0.225
	272	4	28.1	0.68	1.9	6.7	1.20	1.44	S	0.468	1.550
	111	5	31.9	0.77	1.3	4.0	0.39	0.87	N	- 0.744	2.193
	88	6	33.1	0.80	1.8	5.4	0.48	0.61	N	0.510	0.215
	82	7	34.9	0.84	2.0	5.6	0.15	0.31	N	0.821	1.591
	79	8	35.5	0.85	2.1	5.8	0.22	0.49	N	0.330	0.220
	29	9	36.5	0.88	2.4	6.7	0.66	1.11	N	0.446	- 0.270
	5	10	39.3	0.94	1.7	4.4			O	0.753	0.343
37	379	1	17.1	0.41	2.3	13.6	0.89	1.89			
	27	2	21.6	0.52	2.7	12.5	0.88	0.04			
	206	3	25.5	0.61	1.8	7.0	0.73	0.56			
	272	4	28.1	0.68	1.9	6.7	1.20	1.44			
	111	5	31.9	0.77	1.3	4.0	0.39	0.87			
	88	6	33.1	0.80	1.8	5.4	0.48	0.61			
	82	7	34.9	0.84	2.0	5.6	0.15	0.31			
	79	8	35.5	0.85	2.0	5.8	0.23	0.49			
	29	9	36.5	0.88	2.4	6.6	0.78	1.59			
	5	10	40.3	0.97	2.5	6.2					
	1	11	42.5	1.02	0.0	0.0					
38	38	2	18.1	0.35	1.6	8.6	1.26	0.90	S	- 0.978	1.326
	102	3	21.9	0.43	1.5	6.7	1.09	1.29	N	- 0.194	- 0.616
	66	4	25.0	0.49	1.4	5.4	1.10	0.96	N	- 0.373	- 0.506
	91	5	28.4	0.55	1.7	6.1	1.10	1.62	S	0.168	- 0.723
	26	6	31.9	0.62	1.4	4.5	1.25	1.39	O	- 1.188	0.699
	13	7	34.7	0.67	0.8	2.3			O	0.845	1.506
39	27	2	18.0	0.36	0.9	5.2	1.54	1.07	O	0.247	- 0.765
	100	3	21.9	0.44	1.6	7.3	0.95	1.18	N	- 0.275	- 0.292
	68	4	25.0	0.50	1.7	6.7	0.96	0.90	S	0.565	1.370
	74	5	28.2	0.56	1.6	5.7	1.05	1.75	N	0.050	- 0.607
	21	6	32.1	0.64	2.1	6.5	0.64	0.91	O	- 0.166	0.147
	10	7	34.1	0.68	1.1	3.2			O	1.020	2.256

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
331	7	0	7.5	0.16	0.6	7.7	4.03	4.33			
	4	1	18.8	0.41	2.2	11.8	2.62	2.53			
	5	2	26.9	0.58	0.9	3.3	0.61	0.00			
	18	3	28.7	0.62	2.1	7.2	0.61	0.72			
	19	4	31.7	0.69	2.8	8.9	0.26	0.43			
	11	5	33.0	0.72	2.1	6.3	0.93	1.40			
	6	6	37.8	0.82	3.1	8.3	0.45	0.32			
	6	7	40.3	0.88	2.5	6.2	0.23	0.00			
	8	8	41.5	0.90	2.7	6.6	0.24	0.48			
	6	9	42.8	0.93	2.9	6.7	0.30	0.14			
	5	10	44.1	0.96	1.3	3.0	0.09	0.30			
	4	11	44.5	0.97	2.9	6.6					
332	27	2	21.1	0.47	1.9	9.1	0.90	0.00	N	- 0.426	0.314
	103	3	25.3	0.56	2.8	11.0	0.50	0.97	S	1.153	2.462
	54	4	28.1	0.62	2.8	9.9	0.63	1.15	N	- 0.651	0.730
	10	5	31.3	0.69	2.3	7.4			O	0.073	- 1.703
333	20	2	27.4	0.68	1.9	6.8	0.75	0.00	N	- 0.213	- 1.067
	57	3	30.4	0.76	2.2	7.2	0.66	0.64	N	0.379	- 0.631
	57	4	33.2	0.83	2.0	5.9	0.34	0.77	N	- 0.026	- 0.623
	12	5	34.8	0.87	2.7	7.8			N	0.073	- 1.830
334	23	2	25.6	0.54	3.3	12.9	0.91	0.64	N	0.028	- 0.858
	38	3	30.9	0.65	2.4	7.9	0.65	0.41	N	- 0.236	- 0.217
	51	4	33.9	0.72	2.2	6.5	0.37	0.77	N	- 0.396	- 0.098
	37	5	35.6	0.75	2.4	6.8	0.88	1.57	N	0.153	0.694
	7	6	39.5	0.84	2.0	5.1			O	0.169	- 0.359
335	41	6	51.0	0.46	2.5	4.8	1.37	1.51			
	30	7	58.0	0.52	2.7	4.6	0.54	0.45			
	34	8	61.0	0.55	2.9	4.8	1.22	1.23			
	26	9	67.0	0.60	2.0	3.0	0.81	1.20			
	18	10	71.0	0.64	2.9	4.1	0.68	1.13			
	10	11	75.0	0.67	3.0	3.9	0.74	0.75			
	9	12	79.0	0.71	2.5	3.1					
336	352	1	29.9	0.33	6.5	21.8	0.72	1.35			
	153	2	39.8	0.43	7.3	18.4	0.53	1.07			
	79	3	47.7	0.52	7.6	15.9	1.01	1.44			
	19	4	58.8	0.64	3.5	5.9	0.48	0.84			
	9	5	61.8	0.67	2.7	4.3					
337	61	1	21.5	0.41	3.2	14.7	1.34	1.20	N	0.290	- 0.760
	85	2	29.3	0.56	2.7	9.2	1.23	1.23	N	0.217	- 0.819
	90	3	36.4	0.69	3.1	8.5	0.82	0.81	N	- 0.136	- 0.599
	101	4	42.0	0.80	3.7	8.9	0.62	0.45	N	- 0.231	- 0.698
	114	5	46.1	0.87	2.9	6.2	0.19	0.18	N	- 0.422	- 0.169
	116	6	47.2	0.90	2.9	6.2	0.06	0.10	N	- 0.274	- 0.249
	44	7	47.5	0.90	2.3	4.9	0.15	0.26	N	0.512	0.214
	12	8	48.1	0.91	1.7	3.6			O	0.480	- 1.287
338	16	1	24.1	0.46	2.3	9.6	1.00	0.82	N	- 0.025	- 0.824
	22	2	28.7	0.54	2.3	7.9	1.56	1.51	N	0.382	- 1.111
	30	3	37.0	0.70	3.1	8.3	0.81	0.91	N	- 0.008	- 0.533
	30	4	42.9	0.81	4.1	9.7	0.38	0.17	N	- 0.407	- 0.993
	30	5	45.4	0.86	2.7	5.8	0.35	0.60	N	- 0.911	0.683
	19	6	47.1	0.89	2.1	4.5	0.35	0.61	N	- 1.268	2.396
	7	7	48.4	0.92	1.6	3.3			O	0.013	0.249
339	954	1	20.7	0.59	1.9	9.1	1.95	1.95	N	- 0.015	- 0.613
	955	2	28.5	0.81	2.1	7.3	0.83	0.86	N	- 0.004	- 0.604
	953	3	32.1	0.91	2.3	7.1	0.35	0.44	N	0.009	- 0.622
	954	4	33.8	0.96	2.5	7.5	0.15	0.28	N	0.010	- 0.616
	958	5	34.6	0.98	2.8	8.0	0.07	0.11	N	0.003	- 0.616
	953	6	35.0	0.99	3.1	8.7			N	0.000	- 0.635
340	954	1	23.2	0.65	1.9	8.2	1.61	1.63	N	0.026	- 0.625
	954	2	29.7	0.83	2.1	7.0	0.68	0.72	N	0.014	- 0.617
	954	3	32.6	0.91	2.3	7.0	0.33	0.39	N	- 0.005	- 0.606
	995	4	34.3	0.96	2.8	8.0	0.13	0.22	S	0.153	- 0.527
	1018	5	35.1	0.98	3.0	8.6	0.04	0.07	S	0.100	- 0.643
	1005	6	35.3	0.99	3.2	9.1			S	- 0.005	- 0.745

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
341	953	2	26.3	0.72	2.1	7.9	1.22	1.25	N	- 0.019	- 0.622
	954	3	31.6	0.87	2.3	7.2	0.51	0.57	N	- 0.008	- 0.603
	954	4	34.1	0.94	2.5	7.4	0.22	0.32	N	- 0.002	- 0.611
	956	5	35.3	0.97	2.8	7.9	0.09	0.18	N	0.006	- 0.628
	954	6	35.8	0.99	3.1	8.5			N	0.007	- 0.627
342	954	2	27.0	0.76	2.1	7.7	1.00	1.00	N	- 0.003	- 0.600
	955	3	31.4	0.89	2.3	7.3	0.43	0.48	N	0.000	- 0.597
	956	4	33.5	0.94	2.5	7.6	0.19	0.00	N	- 0.006	- 0.611
	1054	5	34.5	0.97	2.7	7.7	0.11	0.23	S	- 0.003	- 0.369
	935	6	35.1	0.99	2.9	8.4			S	0.107	- 0.684
343		1	16.3	0.52	1.6	9.9	2.74				
		2	24.8	0.79	1.5	6.0	0.72				
		3	27.3	0.87	2.1	7.5	0.64				
		4	29.5	0.93	1.3	4.4	0.52				
		5	30.8	0.98	1.2	4.0	0.42				
		6	31.6	1.00	0.8	2.5					
344		1	16.2	0.50	1.1	7.0	2.69				
		2	25.0	0.77	2.1	8.5	0.88				
		3	28.3	0.87	1.7	5.8	0.42				
		4	29.8	0.91	1.8	6.1	0.68				
		5	31.6	0.97	0.9	3.0	0.57				
		6	32.7	1.00	1.0	3.1					
346	283	1	15.7	0.36	1.8	11.6	1.20	1.21	N	- 0.386	- 0.051
	303	2	20.6	0.48	2.3	11.1	1.08	0.88	N	- 0.031	- 0.199
	464	3	25.2	0.58	2.1	8.2	1.21	1.12	S	- 0.400	- 0.456
	494	4	29.3	0.68	1.3	4.5	1.21	1.50	S	0.426	0.871
	211	5	32.4	0.75	1.2	3.7	1.10	1.52	N	- 0.220	- 0.239
	75	6	34.8	0.81	1.0	3.0	1.27	1.54	N	- 0.250	0.697
	34	7	37.2	0.86	0.8	2.2	0.65	1.44	N	0.356	- 0.631
	16	8	38.6	0.89	1.3	3.4	0.27	0.46	N	- 1.062	0.681
	13	9	39.2	0.91	1.1	2.7			O	- 0.476	- 1.018
347	40	3	21.1	0.44	1.7	8.3	1.66	1.79	S	- 0.004	- 1.350
	23	4	26.4	0.55	1.4	5.5	1.28	1.18	O	- 0.066	- 0.025
	29	5	30.2	0.64	1.6	5.2	1.56	1.65	N	- 0.043	0.250
	19	6	34.8	0.73	1.4	4.0	0.71	1.52	N	0.235	- 0.902
	7	7	37.0	0.78	1.7	4.7	0.58	0.58	O	- 0.169	- 0.638
	7	8	39.0	0.82	1.7	4.4			O	- 0.169	- 0.638
348	41	3	20.9	0.40	1.7	8.2	1.56	1.59	N	0.457	- 0.820
	33	4	25.3	0.48	1.2	4.6	1.79	2.00	O	0.446	- 0.415
	19	5	29.8	0.56	1.4	4.6	1.17	1.81	N	- 0.329	- 1.170
	4	6	33.0	0.62	1.3	3.9	1.30	1.16	O	0.000	- 1.200
	7	7	37.5	0.71	2.2	5.8			O	0.000	- 1.200
349	52	2	21.0	0.44	1.5	7.1	1.91	2.03	N	0.400	- 0.688
	29	3	25.8	0.54	1.1	4.2	1.57	1.66	O	- 0.300	- 0.673
	25	4	29.7	0.62	1.4	4.6	1.38	1.40	O	0.482	- 0.146
	18	5	33.0	0.69	1.0	3.2	0.47	1.44	O	0.175	- 1.056
	7	6	34.5	0.72	2.2	6.3	0.82	0.56	O	0.000	- 1.200
	10	7	37.8	0.79	1.9	5.0			O	- 0.416	- 0.569
350	44	2	20.3	0.46	1.2	5.8	2.02	2.13	O	1.001	2.109
	33	3	25.6	0.59	1.5	5.7	1.29	1.50	N	- 0.271	- 0.839
	21	4	29.6	0.67	1.6	5.4	1.19	1.20	O	0.334	- 0.740
	19	5	32.8	0.75	1.2	3.6			O	- 0.116	- 0.576
351	95	1	22.7	0.40	4.0	17.6	2.20	2.18			
	84	2	37.2	0.65	2.6	7.0	0.91	1.50			
	36	3	42.9	0.76	3.7	8.6	0.46	0.92			
	20	4	46.3	0.82	3.7	8.0	0.02	0.03			
	6	5	46.4	0.82	3.1	6.7	0.27	0.52			
	5	6	48.0	0.85	2.9	6.0	0.22	0.31			
	4	7	49.1	0.86	2.0	4.1	0.69	1.35			
	2	8	52.5	0.92	2.9	5.5					
352	286	1	20.9	0.28	6.8	32.5	2.00	1.97			
	254	2	42.1	0.56	3.8	9.0	1.32	1.50			
	154	3	52.0	0.69	3.7	7.1	0.90	1.16			
	98	4	58.8	0.78	3.9	6.6	0.33	0.62			
	20	5	61.2	0.81	3.3	5.4	0.37	0.70			
	10	6	63.5	0.84	2.9	4.6	0.38	0.76			
	6	7	65.7	0.87	2.9	4.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
353	15	1	23.1	0.16	5.6	24.3	1.17	1.09			
	15	2	33.6	0.23	3.4	10.0	1.45	1.57			
	15	3	46.7	0.32	5.7	12.2	0.90	0.91			
	15	4	57.1	0.39	5.9	10.3	1.07	1.16			
	15	5	72.3	0.49	8.4	11.6	1.02	0.94			
	15	6	86.6	0.59	5.6	6.5	0.59	0.55			
	15	7	92.9	0.63	5.1	5.5	0.54	0.49			
	15	8	98.1	0.67	4.5	4.6	0.54	0.60			
	15	9	103.3	0.71	5.2	5.0	0.31	0.60			
	15	10	107.2	0.73	7.3	6.8	0.49	0.51			
	15	11	114.4	0.78	7.5	6.5	0.33	0.35			
	15	12	119.4	0.82	7.7	6.5					
354	176	0	7.2	0.40	2.4	33.2	1.21	1.38	N	0.098	- 0.891
	103	1	12.4	0.69	1.9	15.2	1.07	1.28	S	- 0.638	- 0.219
	39	2	15.4	0.86	1.0	6.2	1.04	0.95	S	- 0.700	- 0.219
	35	3	17.0	0.95	0.6	3.6			O	- 0.758	- 0.323
355	232	1	26.3	0.68	3.4	13.0	1.13	1.70	N	- 0.364	- 0.536
	50	2	33.0	0.85	2.5	7.5			N	- 0.377	- 0.218
356	309	1	26.3	0.59	3.2	12.3	1.23	1.83	S	- 0.446	- 0.193
	66	2	33.8	0.75	2.9	8.5			N	0.059	- 0.872
357	320	1	21.9	0.52	3.8	17.4	0.56	1.29			
	70	2	26.9	0.64	5.2	19.3	0.32	0.65			
	23	3	30.4	0.73	5.7	18.8	0.37	0.70			
	16	4	34.4	0.82	5.0	14.5	0.14	0.28			
	6	5	35.8	0.85	4.8	13.4	0.42	0.56			
	3	6	38.5	0.92	1.7	4.4	1.63	1.59			
	2	7	41.6	0.99	0.2	0.5	0.72	0.00			
	3	8	37.4	0.89	5.6	15.0					
358	149	0	14.9	0.23	3.6	24.1	0.76	0.25	S	0.005	- 1.241
	324	1	20.4	0.32	3.7	18.1	1.13	1.27	N	0.198	- 0.209
	192	2	27.7	0.43	2.7	9.9	0.65	0.73	N	- 0.209	- 0.312
	179	3	31.3	0.49	2.8	9.1	0.48	1.09	N	- 0.078	0.278
	57	4	34.4	0.53	3.6	10.4	0.87	1.37	N	0.470	- 0.342
	31	5	42.1	0.65	5.3	12.6	0.32	0.47	N	- 0.263	- 0.865
	5	6	44.6	0.69	2.6	5.9			O	- 0.541	- 1.488
359	121	0	13.9	0.22	3.3	24.0	0.61	0.00	S	1.031	- 0.074
	383	1	18.7	0.29	4.5	24.1	1.19	1.44	S	0.110	- 0.908
	158	2	27.9	0.43	3.2	11.5	0.82	1.06	N	0.627	0.091
	116	3	33.5	0.52	3.6	10.8	0.57	1.31	N	0.660	0.507
	41	4	38.2	0.59	4.7	12.4	0.55	1.18	N	0.255	- 0.624
	7	5	43.9	0.68	5.5	12.6	0.74	0.94	O	- 1.091	- 0.698
	3	6	49.7	0.77	2.3	4.7			O	- 1.732	0.000
360	22	0	15.1	0.23	2.1	13.9	0.62	0.00	O	1.277	1.193
	229	1	18.6	0.29	3.6	19.3	1.14	1.17	S	0.004	- 0.934
	187	2	26.0	0.40	2.9	11.3	0.81	1.63	S	1.027	1.661
	63	3	32.0	0.50	4.3	13.5	0.97	1.34	S	0.978	0.677
	34	4	41.1	0.64	5.1	12.3	0.34	0.36	N	- 0.214	- 1.078
	29	5	44.1	0.68	3.8	8.6	0.60	1.16	N	- 1.074	0.267
	8	6	48.5	0.75	3.5	7.2			O	- 1.619	2.665
361	283	0	26.9	0.13	7.2	26.6	1.09	1.35	S	- 0.145	- 0.758
	146	1	41.7	0.20	6.4	15.4	1.33	1.70	S	0.525	- 0.244
	58	2	59.5	0.29	6.9	11.6	1.31	1.51	N	0.919	0.971
	32	3	76.6	0.37	6.2	8.1	1.44	1.87	O	- 0.034	- 0.171
	7	4	92.4	0.45	4.8	5.2			O	0.863	1.245
362	88	0	36.6	0.22	5.6	15.3	0.42	0.00	O	0.951	0.460
	160	1	41.8	0.25	6.8	16.4	1.47	1.65	N	0.276	- 0.442
	88	2	61.2	0.36	6.3	10.3	0.81	1.45	S	0.680	1.213
	40	3	73.9	0.44	9.4	12.7	0.98	1.26	N	- 0.096	- 1.247
	26	4	94.0	0.56	11.2	11.9	0.83	0.89	N	0.390	- 0.581
	15	5	107.6	0.64	5.2	4.8	1.80	2.19	O	1.431	4.504
	5	6	129.5	0.77	7.0	5.4	0.43	0.00	O	0.000	- 3.000
	14	7	134.0	0.79	3.5	2.6	0.38	0.00	O	- 0.670	- 1.838
	32	8	136.7	0.81	3.8	2.8	0.29	0.56	O	0.035	0.862
	26	9	138.9	0.82	3.9	2.8	0.38	0.79	O	1.403	1.216
	10	10	142.1	0.84	4.4	3.1	0.68	1.13	O	0.132	0.179
	5	11	147.7	0.87	3.8	2.6			O	- 0.609	- 3.333

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
364	230	0	21.4	0.17	6.8	32.0	1.61	1.74	S	0.724	0.187
	176	1	46.6	0.38	8.9	19.1	1.40	1.48	N	0.156	0.059
	122	2	69.3	0.57	7.3	10.5	1.14	1.12	N	0.115	- 0.180
	99	3	82.5	0.68	4.2	5.1	1.02	0.64	O	- 0.176	- 0.572
	223	4	90.8	0.74	3.9	4.3	0.96	0.97	N	- 0.107	- 0.194
	216	5	98.2	0.80	3.8	3.9	1.00	1.63	N	0.208	- 0.268
	56	6	105.3	0.86	3.3	3.2	0.62	1.35	O	0.517	- 0.688
	23	7	109.8	0.90	3.9	3.6	0.55	1.40	O	0.377	- 0.335
	6	8	115.3	0.94	6.1	5.3			O	- 0.075	- 1.550
365	216	0	19.8	0.16	7.8	39.4	1.52	1.79	S	- 0.076	- 0.262
	98	1	43.6	0.36	7.9	18.1	1.68	1.99	N	- 0.056	- 0.690
	30	2	68.0	0.56	6.6	9.7	1.39	1.45	N	0.467	- 0.291
	15	3	82.3	0.67	4.4	5.4	1.11	1.09	O	0.574	0.091
	15	4	91.7	0.75	4.0	4.4			O	- 0.842	1.459
366	188	0	21.9	0.19	6.4	29.4	1.62	1.85	S	0.541	- 0.261
	102	1	45.1	0.40	7.9	17.5	1.66	1.70	N	- 0.134	- 0.411
	77	2	68.3	0.60	6.1	8.9	1.30	1.30	N	- 0.307	- 0.277
	60	3	80.9	0.71	3.6	4.5	1.28	0.94	O	0.016	- 0.288
	147	4	90.2	0.79	3.6	4.0	1.17	1.18	N	- 0.052	- 0.218
	146	5	98.4	0.86	3.5	3.6	0.95	1.67	O	0.082	- 0.294
	36	6	104.9	0.92	3.3	3.1	0.52	0.92	O	1.081	0.115
	12	7	107.9	0.95	2.6	2.4			O	0.211	2.220
367	86	1	46.4	0.35	4.4	9.4	1.66	1.74			
	84	2	64.1	0.48	6.3	9.9	1.22	1.29			
	74	3	80.5	0.60	7.1	8.9	1.00	1.02			
	63	4	93.4	0.70	5.8	6.2	0.59	1.18			
	36	5	101.2	0.75	7.4	7.3	0.31	0.63			
	14	6	105.9	0.79	7.6	7.2	0.50	1.05			
	3	7	113.9	0.85	8.5	7.5					
368	955	1	15.8	0.45	1.7	10.4	1.72	1.70	N	0.017	- 0.588
	955	2	21.7	0.62	1.8	8.1	1.14	1.14	N	0.000	- 0.567
	955	3	25.8	0.74	1.9	7.2	0.72	0.75	N	- 0.017	- 0.614
	955	4	28.6	0.82	2.0	6.9	0.47	0.51	N	- 0.008	- 0.649
	956	5	30.5	0.88	2.1	7.0	0.30	0.33	N	0.004	- 0.595
	954	6	31.8	0.91	2.3	7.1	0.20	0.27	N	- 0.007	- 0.609
	954	7	32.7	0.94	2.4	7.3	0.12	0.25	N	- 0.003	- 0.613
	953	8	33.3	0.96	2.6	7.7	0.08	0.16	N	- 0.013	- 0.610
	955	9	33.8	0.97	2.7	8.1	0.07	0.15	N	- 0.013	- 0.616
	970	10	34.2	0.98	3.0	8.9			N	0.091	- 0.499
369	12	1	13.2	0.25	1.4	10.4	1.60	1.31	O	- 0.800	- 0.512
	33	2	20.2	0.38	3.0	15.0	1.46	1.99	N	0.130	- 0.894
	10	3	30.9	0.58	4.3	14.0	0.92	1.09	O	- 1.031	- 0.077
	6	4	37.7	0.70	3.1	8.1	1.00	0.98	O	- 0.800	1.267
	4	5	42.0	0.79	1.3	3.1			O	0.000	- 1.200
370	28	1	19.3	0.39	2.4	12.5	1.99	2.07	N	- 0.062	- 0.865
	19	2	28.7	0.57	2.3	8.0	2.09	2.26	N	0.172	- 0.424
	9	3	38.1	0.76	2.2	5.8	0.79	0.96	O	- 0.466	- 1.185
	9	4	42.4	0.85	3.3	7.9	0.38	0.42	O	- 0.058	- 1.360
	5	5	44.1	0.88	1.1	2.6			O	- 0.405	- 0.178
371	4	1	14.0	0.21	2.6	18.4	2.34	1.90	O	0.000	- 1.200
	35	2	25.1	0.37	2.2	8.6	2.65	2.68	O	- 0.119	- 0.420
	32	3	38.3	0.56	2.8	7.3	1.35	1.35	N	- 0.379	- 0.150
	34	4	46.2	0.68	3.0	6.5	0.72	1.53	N	- 0.667	- 0.044
	9	5	50.8	0.75	3.4	6.7	0.50	1.12	O	- 1.373	0.236
	5	6	54.6	0.80	4.3	8.0			O	- 0.069	- 1.824
372	13	1	18.5	0.28	1.7	9.0	3.15	3.13	O	0.498	- 1.340
	22	2	32.4	0.48	2.7	8.4	2.13	2.10	O	0.767	0.163
	26	3	44.3	0.66	2.9	6.5	0.91	1.35	N	0.492	- 0.086
	14	4	50.4	0.75	3.9	7.7			O	0.471	0.297
373	8	2	58.1	0.51	1.4	2.3	1.25	1.70	O	- 0.294	- 1.078
	8	3	67.9	0.59	6.5	9.5	0.67	1.26	O	0.128	- 2.428
	2	4	76.0	0.66	5.7	7.5			O	0.000	0.000
374	98	0	32.6	0.61	2.9	9.0	0.58	0.20	S	0.986	0.977
	181	1	37.6	0.70	5.6	14.9	0.76	0.66	S	0.830	- 0.341
	224	2	46.9	0.87	6.6	14.1	0.30	0.50	S	- 0.425	- 0.343
	114	3	50.3	0.94	4.8	9.6	0.26	0.48	S	- 0.433	- 0.093
	21	4	52.6	0.98	4.2	7.9	0.19	0.43	N	- 0.704	- 0.212
	7	5	54.4	1.02	5.1	9.4			O	- 0.305	- 1.170

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
375	41	1	36.3	0.46	3.4	9.4	0.66	0.00	N	0.342	- 0.236
	176	2	41.5	0.53	4.5	10.7	0.72	0.81	N	0.343	- 0.378
	153	3	47.9	0.61	4.4	9.1	0.52	0.99	S	- 0.558	- 0.079
	45	4	52.2	0.66	3.9	7.5	0.53	1.05	N	0.495	1.217
	6	5	56.3	0.72	3.9	7.0			O	1.166	0.419
376	29	1	34.9	0.51	3.1	9.0	0.54	0.00	O	1.073	2.949
	55	2	39.6	0.58	5.5	13.8	1.12	1.13	S	1.769	3.161
	47	3	50.4	0.74	4.2	8.4	0.56	0.81	N	- 0.216	0.041
	37	4	55.3	0.81	4.5	8.1	0.41	0.74	N	0.199	- 0.473
	24	5	58.6	0.86	3.5	6.0	0.35	0.88	O	0.499	0.688
	8	6	61.8	0.90	5.5	8.8			O	1.286	2.272
377	55	1	35.7	0.45	2.6	7.2	1.11	0.67	S	0.955	1.748
	142	2	43.2	0.54	4.3	9.9	0.43	0.87	S	0.906	1.703
	112	3	47.5	0.59	5.7	12.0	0.84	1.07	S	0.897	- 0.018
	80	4	57.4	0.72	6.1	10.6	0.55	0.91	N	- 0.515	- 0.224
	53	5	63.9	0.80	5.8	9.1	0.65	1.00	S	- 1.350	1.978
	29	6	70.7	0.88	4.6	6.5			N	- 1.355	1.249
378	424	1	51.5	0.67	2.7	5.2	2.46	2.81			
	54	2	63.3	0.82	2.1	3.3	1.41	1.29			
	80	3	69.5	0.90	2.3	3.3	0.79	1.48			
	21	4	72.9	0.95	2.0	2.7	0.49	0.95			
	10	5	74.8	0.97	1.9	2.5					
379	40	1	20.9	0.47	2.2	10.5	0.98	0.86			
	53	2	25.4	0.58	2.4	9.5	0.77	0.79			
	54	3	29.4	0.67	2.8	9.5	0.81	0.54			
	83	4	33.6	0.76	2.4	7.1	0.54	0.71			
	52	5	35.7	0.81	1.5	4.2	0.38	0.73			
	33	6	36.8	0.83	1.4	3.8	0.50	0.79			
	14	7	37.9	0.86	0.8	2.1	0.06	0.00			
	6	8	38.0	0.86	1.0	2.6					
380	436	1	25.4	0.67	2.2	8.5	1.63	1.63			
	396	2	31.4	0.82	1.6	5.0	1.00	1.35			
	157	3	34.2	0.90	1.2	3.6	0.69	1.31			
	51	4	35.8	0.94	1.1	3.2	0.63	1.24			
	24	5	37.3	0.98	1.1	3.0					
381	774	1	25.2	0.66	2.0	8.0	1.70	1.95			
	268	2	31.3	0.82	1.6	5.1	1.04	1.38			
	117	3	34.3	0.90	1.3	3.8	0.68	1.24			
	42	4	35.9	0.94	1.2	3.2	0.49	0.96			
	22	5	37.0	0.97	1.1	3.0					
382	461	1	19.0	0.47	2.6	13.6	1.71	1.82	S	0.140	- 0.424
	320	2	27.7	0.69	2.5	9.0	1.07	1.17	S	- 0.122	- 0.645
	223	3	32.3	0.81	1.9	5.8	0.83	1.13	N	- 0.151	- 0.269
	126	4	35.3	0.88	1.7	4.8	0.63	1.00	N	- 0.144	- 0.459
	72	5	37.3	0.93	1.5	3.9	0.48	0.89	N	- 0.024	- 0.271
	24	6	38.6	0.96	1.3	3.4			O	0.209	- 0.291
383	328	0	24.6	0.60	2.3	9.3	1.01	1.66	N	- 0.307	- 0.488
	76	1	28.7	0.70	1.8	6.2	0.79	0.45	S	- 0.781	1.124
	131	2	31.4	0.77	1.7	5.4	0.61	0.24	N	0.414	0.201
	211	3	33.5	0.82	1.6	4.8	0.84	1.24	N	0.194	0.216
	90	4	35.9	0.88	1.3	3.6	0.43	0.85	N	- 0.076	0.335
	41	5	37.0	0.90	1.3	3.6	0.54	0.91	N	- 0.445	1.999
	26	6	38.4	0.94	1.2	3.2			S	- 0.288	2.935
384	20	0	22.7	0.50	2.0	8.9	1.13	0.00	N	- 0.345	- 1.088
	555	1	27.4	0.61	2.2	8.0	1.16	1.79	S	0.067	- 0.715
	92	2	31.5	0.70	1.4	4.4	0.87	1.30	S	- 1.105	2.574
	43	3	33.9	0.75	1.4	4.0	0.73	0.88	N	0.545	- 0.286
	29	4	35.7	0.79	1.0	2.8	0.82	1.39	N	- 0.388	0.175
	12	5	37.3	0.83	1.0	2.6	0.51	0.72	N	- 0.337	- 0.494
	3	6	38.1	0.85	0.6	1.5			O	1.732	0.000
385	16	0	20.8	0.52	2.5	12.2	1.76	1.26	N	1.570	1.586
	125	1	28.2	0.71	1.7	6.0	0.98	0.83	S	- 0.804	1.325
	167	2	31.4	0.78	1.5	4.7	0.89	1.15	N	0.391	1.413
	100	3	33.9	0.85	1.3	3.9	0.77	1.21	N	0.984	2.896
	50	4	35.8	0.90	1.2	3.3	0.72	1.17	N	- 0.461	1.052
	17	5	37.3	0.93	0.9	2.3	0.42	1.05	N	0.729	0.107
	13	6	38.3	0.96	1.5	4.0			N	- 0.231	- 0.166

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
386	42	0	23.3	0.58	1.6	7.0	0.88	0.00	N	- 0.050	- 0.733
	164	1	27.3	0.68	2.9	10.7	0.87	1.03	S	- 1.085	1.223
	89	2	31.3	0.78	1.7	5.5	0.68	0.70	N	- 0.021	0.418
	84	3	33.6	0.84	1.7	5.0	0.66	1.12	N	- 0.233	- 0.328
	32	4	35.5	0.89	1.2	3.4			N	0.087	- 0.897
387	90	1	29.4	0.73	2.1	7.1	0.71	1.00	N	- 0.407	- 0.228
	53	2	32.1	0.80	1.8	5.7	0.67	0.76	N	0.497	0.268
	47	3	34.7	0.87	2.0	5.6	0.40	0.67	N	- 0.065	0.037
	30	4	36.0	0.90	1.4	3.8			N	0.457	0.368
388	33	1	28.9	0.72	2.2	7.7	0.89	0.45	N	- 0.550	0.515
	80	2	32.4	0.81	1.7	5.3	0.54	1.04	N	0.009	- 0.387
	44	3	34.3	0.86	1.8	5.1	0.59	0.68	N	- 0.819	1.432
	33	4	36.1	0.90	1.3	3.6	0.81	1.22	N	0.327	- 0.301
	13	5	37.9	0.95	0.9	2.3			O	- 0.215	- 0.949
389	22	2	23.1	0.57	1.6	6.8	1.76	1.27	O	0.160	- 0.262
	120	3	28.9	0.71	1.8	6.1	1.31	1.20	N	- 0.282	- 0.554
	143	4	33.0	0.81	1.3	4.1	0.93	1.12	N	- 0.113	- 0.510
	84	5	35.2	0.87	1.0	2.8	1.06	1.52	O	- 0.242	- 0.513
	33	6	37.2	0.92	1.0	2.6			O	- 0.229	0.603
390	165	1	24.2	0.56	2.2	8.9	0.92	1.20	S	- 0.313	- 0.737
	96	2	28.2	0.65	2.2	7.6	1.02	0.88	N	0.196	- 0.715
	123	3	32.4	0.74	2.0	6.1	0.48	0.51	N	- 0.396	0.182
	132	4	34.5	0.79	2.3	6.8	0.37	0.64	N	- 0.051	- 0.636
	28	5	36.0	0.83	1.9	5.4	0.77	1.29	N	- 0.240	- 0.419
	10	6	38.6	0.89	1.4	3.6	0.36	0.29	O	- 1.192	2.396
	12	7	39.8	0.91	1.8	4.6	0.26	0.00	O	- 0.882	1.883
	78	8	40.5	0.93	1.2	3.1	0.19	0.32	S	- 0.408	- 0.111
	53	9	41.0	0.94	1.4	3.4	0.28	0.51	N	- 0.493	0.289
	45	10	41.8	0.96	1.3	3.2	0.08	0.00	N	0.445	- 0.688
	14	11	41.6	0.96	1.3	3.1	0.09	0.16	O	0.638	0.891
	15	12	41.8	0.96	1.6	3.8	0.09	0.00	O	0.968	0.966
	15	13	42.1	0.97	1.4	3.3	0.30	0.57	O	- 1.308	1.797
	12	14	42.9	0.99	1.3	3.1	0.08	0.15	O	0.217	0.733
	12	15	43.2	0.99	1.9	4.5			O	0.109	- 0.849
391	101	1	21.3	0.52	1.4	6.8	2.19	2.08	N	0.145	- 0.783
	156	2	27.5	0.68	1.4	5.1	1.49	1.86	N	- 0.347	0.393
	58	3	31.8	0.78	1.5	4.7	0.85	1.28	N	- 1.455	2.826
	25	4	34.1	0.84	1.3	3.8	0.03	0.00	O	1.510	4.426
	324	5	34.2	0.84	1.3	3.7	0.58	1.28	S	0.417	2.995
	26	6	35.9	0.88	1.6	4.5			N	0.399	- 0.089
392	100	1	55.4	0.57	6.6	12.0	0.92	0.86	S	0.699	0.334
	100	2	66.3	0.69	5.1	7.7	0.84	1.38	S	1.150	0.333
	47	3	75.7	0.78	6.2	8.2	0.11	0.00	N	- 0.260	0.437
	61	4	77.0	0.80	6.2	8.1	0.54	0.98	S	- 0.660	0.578
	29	5	83.2	0.86	5.1	6.2	0.19	0.39	O	0.133	- 0.447
	22	6	85.2	0.88	5.5	6.5	0.35	0.85	O	0.109	0.772
	6	7	90.0	0.93	8.2	9.1	0.12	0.30	O	0.811	- 1.029
	5	8	92.5	0.96	12.8	13.8	0.57	0.45	O	1.207	0.580
	4	9	101.3	1.05	2.5	2.5			O	- 2.000	4.000
393	28	1	44.4	0.55	3.9	8.8	2.87	2.77			
	50	2	67.1	0.83	4.0	6.0	0.54	1.37			
	21	3	72.6	0.90	6.1	8.4	0.70	1.08			
	6	4	79.2	0.99	3.3	4.2					
394	19	1	46.7	0.46	3.9	8.3	2.72	2.42			
	88	2	71.4	0.71	5.2	7.3	0.93	1.18			
	53	3	80.8	0.80	4.9	6.1	0.74	1.41			
	20	4	88.1	0.87	5.0	5.7	0.71	1.32			
	8	5	94.8	0.94	4.5	4.7	0.44	0.69			
	4	6	97.9	0.97	2.6	2.6					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
395	16	1	42.0	0.30	2.1	4.9	1.34	1.21	O	- 0.830	- 0.206
	25	2	48.7	0.35	2.9	6.0	0.49	0.00	O	0.256	1.286
	56	3	51.9	0.37	3.6	6.9	1.20	1.45	N	0.133	- 0.306
	26	4	59.6	0.43	2.8	4.8	0.44	0.35	S	0.276	- 1.343
	32	5	62.6	0.45	3.8	6.1	0.95	1.05	N	0.047	- 1.020
	27	6	69.9	0.50	3.9	5.6	0.50	0.34	O	- 0.775	0.583
	33	7	73.9	0.53	4.2	5.7	0.65	1.28	N	1.218	1.518
	9	8	79.3	0.57	4.2	5.3	0.50	0.00	O	0.561	- 1.273
	20	9	82.9	0.59	2.9	3.5	0.89	1.85	O	0.171	2.088
	4	10	88.5	0.63	3.4	3.9	0.29	0.00	O	- 0.753	0.343
	6	11	90.7	0.65	4.1	4.6			O	1.172	1.970
396	19	2	58.8	0.36	2.5	4.2	3.47	3.40			
	32	3	71.1	0.44	1.1	1.5	3.57	3.33			
	138	4	79.6	0.49	1.3	1.6	3.44	3.54			
	56	5	87.4	0.54	1.0	1.1					
397	75	2	56.9	0.42	2.2	3.8	3.07	2.98			
	130	3	68.6	0.50	1.6	2.4	2.13	2.15			
	163	4	77.7	0.57	2.7	3.4	1.19	1.66			
	44	5	83.5	0.61	2.2	2.7	2.01	2.62			
	10	6	98.4	0.72	5.2	5.3					
398	6	2	105.5	0.55	4.2	4.0	2.14	1.79	O	- 1.537	1.429
	24	3	131.8	0.68	8.1	6.2	1.10	0.76	N	- 0.959	1.763
	52	4	147.7	0.77	6.4	4.3	0.99	1.26	N	- 0.066	- 0.410
	36	5	162.0	0.84	8.1	5.0	0.51	0.89	N	- 0.909	0.570
	20	6	169.3	0.88	6.0	3.6	0.45	0.79	O	- 1.131	1.901
	9	7	174.1	0.90	4.9	2.8			O	- 1.600	3.194
399	68	1	57.3	0.53	3.8	6.7	0.99	0.76			
	113	2	65.7	0.60	4.7	7.2	1.08	1.42			
	64	3	77.4	0.71	6.1	7.9	0.61	0.51			
	63	4	83.7	0.77	4.3	5.1	0.54	0.96			
	16	5	87.8	0.81	3.4	3.8					
400	5	2	78.0	0.36	12.8	16.4	1.36	1.00	O	- 0.905	2.000
	13	3	118.4	0.54	17.0	14.4	0.47	0.00	O	- 0.798	1.669
	25	4	134.0	0.61	16.4	12.2	0.73	1.02	N	0.470	0.865
	16	5	157.7	0.72	15.9	10.1	0.61	0.99	S	0.122	- 0.481
	8	6	173.6	0.79	10.5	6.1	0.29	0.57	O	0.152	- 2.144
	3	7	179.7	0.82	10.4	5.8			O	- 1.253	0.000
401	29	1	62.7	0.17	1.7	2.8	3.99	3.99			
	41	2	83.1	0.22	3.4	4.1	1.95	2.40			
	14	3	102.1	0.27	6.4	6.3	1.49	1.37			
	19	4	119.9	0.32	5.5	4.6	1.34	1.37			
	19	5	136.5	0.37	6.9	5.1	1.43	1.30			
	23	6	152.0	0.41	4.0	2.6	2.92	2.96			
	7	7	166.5	0.45	1.0	0.6	2.64	3.06			
	3	8	180.1	0.48	4.2	2.3	1.74	1.47			
	8	9	192.8	0.52	3.1	1.6	1.93	2.06			
	4	10	203.6	0.55	2.5	1.2	1.79	2.10			
	2	11	215.7	0.58	4.2	2.0	1.14	0.35			
	11	12	226.1	0.61	4.8	2.1	1.43	1.37			
	10	13	235.8	0.63	1.9	0.8	1.66	1.96			
	6	14	244.8	0.66	3.5	1.4	1.81	1.83			
	3	15	253.3	0.68	1.2	0.5	2.31	2.07			
	9	16	261.2	0.70	2.3	0.9	1.23	1.64			
	5	17	268.5	0.72	3.8	1.4	1.22	1.20			
	4	18	275.5	0.74	1.9	0.7	1.53	1.67			
	3	19	281.9	0.76	2.3	0.8					
402	979	1	44.8	0.14	3.4	7.6	2.82	2.91			
	715	2	67.6	0.22	4.7	7.0	2.16	2.30			
	503	3	91.6	0.29	6.4	7.0	1.62	1.78			
	369	4	116.2	0.37	8.8	7.6	1.20	1.41			
	243	5	138.8	0.44	10.0	7.2	0.92	1.21			
	150	6	157.9	0.50	10.7	6.8	0.84	1.03			
	112	7	176.3	0.56	11.3	6.4	0.64	1.02			
	63	8	189.7	0.61	9.7	5.1	0.53	1.13			
	20	9	200.8	0.64	11.3	5.6	0.62	1.42			
	4	10	217.0	0.69	15.0	6.9					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
403	92	0	40.2	0.20	6.3	15.7	1.54	1.73	S	- 0.360	- 1.295
	56	1	60.5	0.30	6.9	11.4	1.59	1.63	S	- 0.359	- 0.740
	44	2	80.9	0.40	5.9	7.3	1.36	1.38	S	0.034	- 0.959
	47	3	99.0	0.49	7.4	7.4	1.41	1.48	N	- 0.074	- 0.666
	42	4	121.4	0.61	8.6	7.1	1.10	1.06	N	- 0.650	0.470
	41	5	138.1	0.69	6.5	4.7	1.19	1.51	N	0.681	- 0.152
	19	6	153.8	0.77	6.6	4.3	1.32	1.24	N	0.097	- 1.371
	28	7	176.1	0.88	10.3	5.8	0.67	0.84	N	0.084	- 0.712
	18	8	187.8	0.94	7.2	3.8			O	- 0.513	- 0.212
404	10	5	147.1	0.53	9.0	6.1					
	11	14	253.5	0.91	12.8	5.1	0.39	0.00			
	20	15	262.9	0.95	11.4	4.3	0.02	0.00			
	31	16	262.5	0.94	10.8	4.1	0.00	0.00			
	53	17	262.5	0.94	10.5	4.0	0.07	0.00			
	71	18	264.0	0.95	11.4	4.3	0.15	0.00			
	126	19	267.5	0.96	11.7	4.4	0.06	0.09			
	94	20	268.7	0.97	9.7	3.6	[illegible]	0.00			
	102	21	268.3	0.97	10.1	3.8		0.00			
	129	22	270.4	0.97	9.1	3.4	0.02	0.00			
	105	23	270.1	0.97	7.9	2.9	0.08	0.16			
	68	24	271.5	0.98	10.6	3.9	0.03	0.06			
	45	25	272.2	0.98	9.8	3.6	0.12	0.21			
	23	26	274.4	0.99	9.1	3.3	0.00	0.00			
	12	27	274.4	0.99	10.4	3.8					
405	12	6	161.1	0.61	15.4	9.6					
	22	17	252.5	0.95	9.0	3.6	0.28	0.43			
	25	18	258.9	0.97	13.6	5.3	0.04	0.00			
	38	19	258.0	0.97	10.1	3.9	0.06	0.12			
	39	20	259.3	0.97	12.3	4.7	0.08	0.00			
	49	21	257.4	0.97	10.6	4.1	0.12	0.00			
	62	22	259.8	0.98	8.9	3.4	0.04	0.00			
	40	23	259.1	0.97	9.5	3.7	0.06	0.00			
	48	24	260.3	0.98	10.3	4.0	0.01	0.03			
	34	25	260.6	0.98	11.4	4.4	0.10	0.18			
	24	26	262.7	0.99	9.6	3.7	0.11	0.23			
	13	27	265.0	1.00	12.3	4.6					
406	391	1	9.8	0.20	2.5	25.5	2.14	2.20			
	369	2	23.3	0.49	3.8	16.3	1.24	1.45			
	223	3	32.7	0.68	3.8	11.6	0.70	1.08			
	123	4	37.8	0.79	3.5	9.3	0.43	0.80			
	91	5	40.9	0.85	3.7	9.1	0.30	0.54			
	68	6	42.9	0.89	2.9	6.8	0.28	0.62			
	40	7	44.7	0.93	3.5	7.8	0.14	0.26			
	24	8	45.6	0.95	2.9	6.4	0.20	0.45			
	13	9	46.9	0.98	3.6	7.7	0.14	0.28			
	10	10	47.9	1.00	3.7	7.7					
407	969	1	10.7	0.16	3.1	29.0	1.87	1.94			
	959	2	24.7	0.37	4.4	17.8	1.30	1.36			
	811	3	36.4	0.54	4.6	12.6	0.82	1.02			
	574	4	43.9	0.66	4.5	10.3	0.57	0.82			
	414	5	48.9	0.73	4.3	8.8	0.50	0.74			
	327	6	53.2	0.80	4.3	8.1	0.37	0.72			
	197	7	56.3	0.84	4.0	7.1	0.24	0.50			
	101	8	58.3	0.87	4.4	7.6	0.21	0.41			
	62	9	60.1	0.90	4.0	6.7	0.14	0.27			
	39	10	61.2	0.91	3.9	6.4	0.23	0.46			
	26	11	63.0	0.94	3.9	6.2	0.21	0.44			
	22	12	64.7	0.97	4.1	6.3	0.20	0.39			
	11	13	66.3	0.99	3.8	5.7	0.03	0.00			
	9	14	66.5	0.99	2.4	3.6					
408	346	1	11.0	0.24	2.9	26.4	2.24	2.31			
	315	2	25.8	0.56	3.7	14.3	1.29	1.59			
	130	3	34.8	0.76	3.3	9.5	0.68	1.33			
	49	4	39.2	0.86	3.2	8.2	0.37	0.78			
	25	5	41.7	0.91	3.6	8.6	0.23	0.47			
	17	6	43.4	0.95	3.7	8.5	0.17	0.35			
	15	7	44.7	0.98	3.9	8.7	0.23	0.56			
	8	8	46.9	1.03	5.6	11.9					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
409	952	1	10.8	0.16	2.7	25.0	2.32	2.37			
	898	2	26.1	0.39	3.9	14.9	1.49	1.59			
	695	3	38.0	0.57	4.1	10.8	0.87	1.10			
	467	4	45.1	0.68	4.1	9.1	0.59	0.98			
	304	5	50.0	0.75	4.2	8.4	0.48	0.81			
	219	6	54.0	0.81	4.2	7.8	0.42	0.67			
	175	7	57.5	0.86	4.1	7.1	0.25	0.49			
	111	8	59.5	0.89	3.9	6.6	0.22	0.44			
	57	9	61.2	0.92	4.0	6.5	0.25	0.50			
	35	10	63.2	0.95	3.9	6.2	0.35	0.72			
	23	11	66.0	0.99	4.2	6.4	0.08	0.00			
	12	12	65.4	0.98	3.0	4.6					
410	238	1	5.7	0.11	1.5	26.3	2.51	2.60			
	238	2	17.5	0.35	3.2	18.3	2.20	2.22			
	190	3	30.5	0.60	2.7	8.9	1.23	1.56			
	78	4	36.9	0.73	2.5	6.8	0.88	1.44			
	29	5	41.2	0.81	2.4	5.8	0.27	0.71			
	7	6	42.9	0.85	4.0	9.3					
411	369	1	5.9	0.10	1.4	23.7	2.80	2.93			
	369	2	18.5	0.30	3.1	16.8	2.37	2.42			
	306	3	33.4	0.55	3.2	9.6	1.18	1.44			
	153	4	40.6	0.67	2.9	7.1	0.86	1.24			
	78	5	45.5	0.75	2.8	6.2	0.84	1.39			
	27	6	49.7	0.82	2.2	4.4	0.48	0.86			
	10	7	51.6	0.85	1.8	3.5	1.04	1.00			
	6	8	54.0	0.89	0.5	0.9	2.30	2.40			
	4	9	56.3	0.93	0.5	0.9					
412	9	2	7.9	0.37	0.7	9.2	1.47	1.64			
	3	3	9.4	0.44	0.3	3.1	2.16	2.07			
	9	4	11.6	0.54	0.7	6.3	0.88	0.82			
	10	5	12.9	0.60	0.8	5.8	0.37	0.00			
	23	6	13.4	0.63	0.6	4.4	0.69	1.36			
	10	7	14.3	0.67	0.7	5.0	0.58	0.42			
	12	8	15.2	0.71	0.8	5.5	0.00	0.00			
	9	9	15.2	0.71	1.1	7.1	0.28	0.00			
	12	10	15.8	0.74	1.1	7.0	0.26	0.27			
	4	11	16.1	0.75	0.0	0.3	0.00	0.00			
	1	12	16.5	0.77	0.0	0.0	0.00	0.00			
	1	13	17.1	0.80	0.0	0.0					
413	13	2	8.1	0.38	0.9	11.2	2.03	2.20			
	6	3	11.7	0.55	0.9	7.4	0.58	0.58			
	3	4	12.3	0.57	0.2	1.5	2.16	2.22			
	5	5	13.9	0.65	0.6	4.0	0.00	0.00			
	3	6	13.9	0.65	1.0	7.3	0.44	0.79			
	3	7	15.1	0.71	1.7	11.3	0.59	0.18			
	6	8	16.5	0.77	0.7	4.2	0.11	0.00			
	8	9	16.7	0.78	1.2	7.0	0.25	0.00			
	12	10	17.3	0.81	1.3	7.2	0.16	0.24			
	5	11	17.6	0.82	0.7	3.8	0.33	0.45			
	2	12	18.0	0.84	0.6	3.1					
414	19	2	8.8	0.20	1.3	14.8	0.86	0.46			
	37	3	11.3	0.25	1.6	14.2	0.97	0.88			
	47	4	14.8	0.33	2.0	13.5	0.85	1.05			
	34	5	18.3	0.41	2.1	11.5	0.82	0.95			
	26	6	21.5	0.48	1.8	8.4	0.34	0.50			
	23	7	22.7	0.51	1.7	7.5	0.88	0.88			
	22	8	25.6	0.57	1.6	6.3	0.30	0.38			
	24	9	26.7	0.60	2.1	7.9	0.68	0.81			
	15	10	29.0	0.65	1.3	4.5	0.52	0.77			
	15	11	30.7	0.69	2.0	6.5	0.49	0.90			
	7	12	32.5	0.73	1.7	5.2	0.39	0.00			
	17	13	33.7	0.75	1.4	4.2	0.49	1.21			
	9	14	35.4	0.79	2.1	5.9	0.09	0.00			
	9	15	35.7	0.80	1.1	3.1	0.42	0.55			
	7	16	36.5	0.82	0.8	2.2	0.65	0.37			
	11	17	37.6	0.84	0.9	2.4	0.31	0.56			
	7	18	38.1	0.85	0.7	1.8	0.13	0.43			
	10	19	38.4	0.86	1.7	4.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
415	20	2	8.9	0.21	1.4	15.7	0.80	0.43			
	36	3	11.3	0.26	1.6	14.2	0.91	0.94			
	39	4	14.5	0.34	1.9	13.1	0.97	1.11			
	29	5	18.0	0.42	1.7	9.4	0.92	1.00			
	26	6	21.3	0.49	1.9	8.9	0.51	0.42			
	28	7	23.2	0.54	1.8	7.8	0.66	0.72			
	25	8	25.5	0.59	1.7	6.7	0.42	0.59			
	24	9	27.1	0.63	2.1	7.8	0.49	0.86			
	17	10	29.2	0.68	2.2	7.5	0.30	0.27			
	17	11	30.5	0.71	2.1	6.9	0.53	0.67			
	12	12	32.4	0.75	1.5	4.6	0.56	0.13			
	19	13	33.9	0.78	1.2	3.5	0.29	0.50			
	14	14	34.5	0.80	0.9	2.6	0.48	1.11			
	9	15	35.5	0.82	1.2	3.4	0.33	0.00			
	12	16	36.2	0.84	0.9	2.5	0.07	0.33			
	13	17	36.5	0.85	3.5	9.6	0.47	0.43			
	9	18	38.8	0.90	1.4	3.6	0.11	0.00			
	8	19	38.5	0.89	1.3	3.4	0.09	0.00			
	6	21	38.3	0.89	1.0	2.6					
416	5	4	21.3	0.52	0.8	3.9	0.75	0.72	O	0.512	- 0.612
	6	5	22.8	0.56	1.2	5.3	1.26	0.74	O	0.075	- 1.549
	20	6	26.6	0.65	1.8	6.7	0.39	0.00	O	- 0.733	0.314
	59	7	28.1	0.68	2.1	7.3	0.37	0.00	N	- 0.194	- 0.573
	127	8	29.4	0.72	1.5	5.1	0.32	0.00	N	- 0.150	0.182
	253	9	30.5	0.74	1.8	5.8	0.20	0.00	N	0.731	1.533
	395	10	31.2	0.76	1.8	5.8	0.29	0.55	S	0.662	1.242
	331	11	32.2	0.78	1.7	5.4	0.16	0.35	S	0.684	0.581
	267	12	32.8	0.80	2.1	6.4	0.34	0.72	S	0.814	0.542
	99	13	34.3	0.83	2.4	7.0	0.38	0.83	N	0.582	0.722
	34	14	36.4	0.89	3.0	8.2	0.22	0.33	N	- 0.261	- 0.524
	12	15	37.4	0.91	1.8	4.8	0.22	0.56	S	- 0.082	- 2.030
	10	16	38.5	0.94	3.1	7.9			O	0.088	- 0.551
417	12	6	25.5	0.62	1.3	5.0	0.50	0.39	O	- 0.313	- 0.856
	13	7	26.7	0.65	1.2	4.4	0.55	0.00	O	- 0.152	- 0.193
	47	8	28.4	0.69	1.8	6.2	0.38	0.28	N	0.790	1.841
	51	9	29.7	0.72	1.8	6.1	0.28	0.00	N	0.684	0.756
	78	10	30.8	0.75	2.0	6.6	0.28	0.05	S	0.644	0.813
	90	11	31.9	0.78	2.1	6.7	0.28	0.56	N	0.570	- 0.191
	62	12	33.2	0.81	2.2	6.8	0.17	0.31	S	0.245	- 0.792
	40	13	33.9	0.82	2.1	6.3	0.49	1.03	N	0.029	- 1.226
	22	14	36.1	0.88	2.5	6.8	0.12	0.16	N	- 0.233	0.162
	8	15	36.6	0.89	1.6	4.2			O	0.033	- 1.886
418	37	4	16.6	0.53	0.7	4.2	0.87	0.00	O	- 1.547	0.941
	146	5	18.1	0.58	1.0	5.7	0.83	0.67	S	- 0.005	- 0.752
	233	6	20.3	0.65	1.6	7.6	0.62	0.97	S	- 0.197	- 0.759
	96	7	21.9	0.70	1.0	4.5	0.28	0.81	S	1.062	0.117
	16	8	22.7	0.72	2.0	8.6	0.83	0.92	S	- 0.046	- 0.617
	10	9	25.2	0.80	1.1	4.4	0.31	0.09	O	0.134	- 1.484
	11	10	25.9	0.82	1.0	3.8	0.05	0.00	O	1.783	4.504
	16	11	26.0	0.83	1.2	4.7	0.41	0.49	S	0.903	- 0.483
	7	12	26.7	0.85	0.5	1.9			O	- 0.857	- 1.714
419	7	2	20.4	0.56	1.0	4.8	0.30	0.00			
	31	3	21.2	0.58	1.7	8.0	0.29	0.00			
	62	4	22.5	0.62	2.8	12.4	0.47	0.82			
	40	5	24.9	0.69	2.3	9.2	0.03	0.04			
	15	6	25.0	0.69	1.1	4.3	1.39	1.76			
	9	8	29.2	0.80	2.0	6.7	0.06	0.05			
	7	10	29.4	0.81	1.4	4.8					
420	31	3	22.5	0.51	2.0	8.9	0.36	0.05			
	43	4	24.2	0.55	2.7	11.2	0.41	0.93			
	31	5	26.8	0.60	3.7	13.8	0.31	0.35			
	24	6	28.7	0.65	2.4	8.4	0.15	0.25			
	11	7	29.4	0.66	2.4	8.2					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
421	112	1	9.4	0.26	2.6	28.2	1.94	1.93	N	0.274	- 0.572
	111	2	19.3	0.54	2.5	12.7	1.17	1.18	N	- 0.143	- 0.277
	94	3	24.3	0.68	1.8	7.6	0.97	1.25	N	- 0.188	- 0.490
	48	4	27.7	0.77	1.7	6.0	0.85	1.26	N	- 0.114	- 0.703
	22	5	30.3	0.85	1.4	4.6	0.49	1.00	O	0.811	- 0.054
	10	6	31.8	0.89	1.6	5.2	0.62	1.28	O	1.491	1.975
	5	7	34.1	0.95	2.1	6.1			O	1.447	1.931
422	125	1	8.9	0.26	2.3	25.3	2.13	2.17	N	0.432	- 0.640
	123	2	19.1	0.55	2.5	13.1	1.02	1.13	N	- 0.118	- 0.496
	90	3	23.6	0.68	2.0	8.4	1.09	1.46	N	- 0.106	0.162
	35	4	27.6	0.79	1.7	6.1	0.77	1.36	N	0.142	0.883
	16	5	30.5	0.87	2.0	6.5	0.33	0.56	O	- 0.361	- 0.124
	5	6	31.7	0.91	1.6	5.2	0.54	0.73	O	- 0.518	- 1.687
	5	7	33.9	0.97	2.4	7.1			O	- 0.601	- 0.945
423	15	4	29.7	0.40	1.6	5.4	0.93	0.94			
	18	5	33.5	0.45	2.5	7.5	1.52	1.52			
	14	6	39.9	0.53	1.7	4.3	1.15	1.29			
	10	7	43.7	0.58	1.6	3.7	0.33	0.56			
	12	8	45.2	0.60	3.0	6.6	0.27	0.00			
	15	9	46.5	0.62	1.9	4.1	1.51	1.79			
	11	12	55.4	0.74	4.0	7.2					
424	8	4	29.5	0.41	1.6	5.4	1.19	0.81			
	20	5	33.3	0.46	1.6	4.8	1.19	1.87			
	6	6	38.4	0.53	2.7	7.0	0.42	0.22			
	8	7	41.1	0.57	3.8	9.3	0.41	0.05			
	10	8	43.7	0.61	2.6	6.0	0.19	0.31			
	7	9	44.5	0.62	1.7	3.8					
425	9	1	2.6	0.08	0.7	27.1	1.68	1.97			
	3	2	5.1	0.16	0.8	15.2	0.00	0.00			
	1	3	8.8	0.27	0.0	0.0	0.00	0.00			
	10	4	13.4	0.41	2.0	14.7	0.87	0.15			
	45	5	16.3	0.51	1.4	8.7	0.55	1.34			
	7	6	18.3	0.57	2.1	11.5					
426	9	1	3.2	0.22	0.6	18.9	2.37	2.35			
	13	2	7.8	0.54	1.3	17.3	0.82	0.15			
	49	3	9.6	0.66	0.9	9.5	1.10	1.32			
	4	4	10.9	0.75	0.2	2.2					
427	44	1	24.4	0.18	4.1	16.6	1.11	1.25	O	0.521	- 0.116
	46	2	37.2	0.27	7.4	19.9	1.23	1.03	N	- 0.740	- 0.443
	84	3	59.2	0.44	10.5	17.7	0.43	0.00	N	0.273	- 0.569
	130	4	67.9	0.50	9.6	14.1	0.34	0.69	N	0.122	- 0.391
	88	5	74.5	0.55	9.8	13.1	0.71	1.07	N	- 0.267	- 0.687
	46	6	87.1	0.64	8.0	9.1	0.65	0.96	S	- 0.338	- 0.470
	18	7	94.7	0.70	3.9	4.1	0.57	1.20	O	0.618	0.147
	5	8	99.5	0.73	4.5	4.5			O	- 1.258	0.313
428	25	1	23.0	0.27	3.0	13.0	0.73	0.00	O	0.564	1.089
	99	2	27.6	0.32	3.3	12.0	0.78	1.06	N	0.056	- 0.803
	86	3	34.4	0.40	5.4	15.8	0.51	0.77	S	0.602	0.422
	69	4	40.2	0.47	5.9	14.7	0.75	1.23	N	0.473	0.030
	19	5	47.5	0.55	3.9	8.2	0.47	0.88	N	- 0.109	- 1.036
	5	6	51.0	0.59	3.5	6.8	0.46	1.15	O	1.925	3.667
	3	7	55.0	0.64	5.3	9.6			O	- 1.458	0.000
429	89	0	4.8	0.12	1.9	39.6	1.73	2.11			
	13	1	10.0	0.24	1.1	11.0	1.35	0.91			
	41	2	13.1	0.32	1.2	9.2	1.28	0.92			
	99	3	16.3	0.39	1.3	8.0	0.96	0.92			
	109	4	19.0	0.46	1.5	7.9	0.94	1.00			
	106	5	21.9	0.53	1.6	7.3	0.96	1.63			
	23	6	24.6	0.59	1.2	4.9	1.10	1.67			
	5	7	26.8	0.65	0.8	3.0					
430	10	4	20.9	0.50	1.1	5.3	0.81	0.00			
	36	5	23.0	0.55	1.5	6.5	0.83	0.60			
	52	6	25.4	0.61	1.4	5.5	0.84	1.43			
	14	7	27.5	0.66	1.1	4.0					

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Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
431	48	1	20.0	0.30	4.5	22.5	0.66	0.36			
	69	2	25.3	0.38	3.5	13.8	1.13	1.14			
	59	3	32.5	0.48	2.9	8.9	0.68	0.79			
	63	4	37.5	0.56	4.5	12.0	0.39	0.87			
	42	5	41.4	0.62	5.5	13.3	0.44	0.07			
	58	6	46.3	0.69	5.6	12.1	0.21	0.00			
	135	7	48.7	0.72	5.9	12.1	0.36	0.08			
	163	8	52.9	0.79	5.7	10.8	0.08	0.18			
	157	9	53.9	0.80	6.4	11.9	0.20	0.36			
	122	10	56.2	0.84	5.3	9.4	0.09	0.19			
	45	11	57.2	0.85	6.0	10.5	0.22	0.45			
	27	12	59.9	0.89	6.2	10.4	0.20	0.00			
	44	13	62.1	0.92	5.1	8.2	0.04	0.00			
	54	14	61.7	0.92	4.8	7.8	0.01	0.00			
	26	15	61.8	0.92	4.8	7.8	0.08	0.00			
	26	16	62.5	0.93	4.5	7.2	0.09	0.00			
	14	17	61.7	0.92	4.7	7.6	1.21	1.36			
	6	18	70.2	1.04	2.3	3.3					
432	385	1	10.3	0.12	2.0	19.2	2.64	2.73			
	385	2	24.7	0.28	3.5	14.0	1.88	1.91			
	354	3	38.3	0.44	3.8	9.9	1.33	1.64			
	164	4	48.9	0.56	4.2	8.6	0.67	1.43			
	75	5	56.2	0.64	6.8	12.1	0.32	0.81			
	36	6	61.7	0.71	10.3	16.7	0.28	0.47			
	16	7	66.5	0.76	6.9	10.3	0.37	0.67			
	5	8	71.1	0.81	5.5	7.8					
433	295	1	10.3	0.09	1.7	16.8	2.77	2.83			
	295	2	24.7	0.22	3.5	14.0	1.92	1.94			
	281	3	38.6	0.34	3.8	9.8	1.31	1.66			
	131	4	49.6	0.44	4.6	9.3	0.92	1.54			
	49	5	59.0	0.52	5.6	9.6	0.84	1.17			
	25	6	67.8	0.60	4.8	7.1	0.70	1.11			
	13	7	74.1	0.66	4.2	5.6	0.69	1.27			
	5	8	79.4	0.70	3.5	4.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
434	1603	4	49.6	0.52	4.4	8.9					
	1901	4	50.1	0.52	4.3	8.6	0.67	1.47			
	420	5	56.4	0.59	5.1	9.0					
	3008	4	49.8	0.52	4.4	8.8	0.67	1.50			
	456	5	56.4	0.59	5.5	9.8	0.60	1.27			
	125	6	63.4	0.66	6.1	9.6					
	2832	4	49.4	0.52	4.7	9.5	0.69	1.23			
	1477	5	56.4	0.59	5.5	9.8	0.63	1.31			
	221	6	63.6	0.67	6.0	9.4	0.55	1.05			
	56	7	69.9	0.73	5.5	7.9					
	3648	4	49.5	0.52	4.9	9.9	0.58	1.35			
	619	5	56.1	0.59	6.4	11.4	0.53	0.94			
	408	6	63.0	0.66	6.6	10.5	0.47	0.88			
	81	7	68.8	0.72	5.8	8.4					
	5090	4	51.8	0.54	4.8	9.3	0.69	1.50			
	1559	5	59.0	0.62	5.7	9.7	0.54	1.14			
	342	6	65.5	0.69	6.3	9.6	0.42	0.70			
	251	7	70.4	0.74	5.5	7.8	0.29	0.64			
	43	8	73.9	0.77	6.5	8.8					
	4113	4	51.7	0.54	4.8	9.3	0.71	1.46			
	1500	5	59.0	0.62	5.5	9.3	0.57	1.18			
	482	6	65.5	0.69	6.0	9.2	0.42	0.85			
	121	7	70.6	0.74	6.1	8.6	0.35	0.26			
	116	8	74.4	0.78	4.9	6.6					
	3069	4	50.5	0.53	5.0	9.9	0.92	1.10			
	2264	5	59.9	0.63	5.2	8.7	0.61	1.21			
	995	6	66.2	0.69	5.1	7.7	0.50	1.02			
	374	7	71.4	0.75	5.4	7.6	0.37	0.70			
	101	8	75.2	0.79	4.8	6.4	0.34	0.48			
	90	9	78.4	0.82	4.6	5.9					
	1692	4	50.8	0.53	4.8	9.5	0.75	1.06			
	1123	5	58.3	0.61	5.2	8.9	0.84	1.08			
	718	6	66.8	0.70	4.9	7.3	0.48	0.96			
	380	7	71.5	0.75	5.0	7.0	0.50	0.96			
	163	8	76.3	0.80	4.7	6.2	0.19	0.36			
	51	9	78.0	0.82	4.5	5.8					
	3054	4	50.5	0.53	5.5	10.9	0.77	1.49			
	685	5	58.7	0.62	5.2	8.9	0.63	1.12			
	368	6	65.2	0.68	5.2	8.0	0.66	0.54			
	419	7	71.8	0.75	4.8	6.7	0.38	0.79			
	289	8	75.6	0.79	5.1	6.8	0.33	0.71			
	109	9	79.2	0.83	5.8	7.3					
	1949	5	58.2	0.61	5.8	10.0	0.59	1.10			
	338	6	64.6	0.68	5.1	7.9	0.60	0.96			
	206	7	70.4	0.74	4.5	6.4	0.59	0.27			
	291	8	75.4	0.79	4.0	5.3	0.28	0.65			
	220	9	78.0	0.82	5.2	6.7					
	1566	6	64.8	0.68	5.2	8.0	0.52	1.02			
	295	7	70.1	0.73	5.1	7.3	0.43	0.65			
	229	8	74.2	0.78	4.5	6.1	0.53	0.40			
	264	9	79.0	0.83	4.5	5.7					
	805	7	70.8	0.74	6.0	8.5	0.41	0.73			
	141	8	75.2	0.79	4.8	6.4	0.28	0.54			
	116	9	77.8	0.82	4.6	5.9					
	577	8	75.8	0.79	5.3	7.0	0.00	0.00			
	82	9	75.8	0.79	4.2	5.5	0.36	0.00			
	423	9	79.1	0.83	5.1	6.5					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
435	141	4	54.1	0.53	4.7	8.7					
	190	4	52.9	0.52	5.4	10.2	0.88	0.78			
	229	5	62.5	0.61	5.5	8.8					
	387	4	51.3	0.50	5.2	10.1	1.07	1.12			
	348	5	62.3	0.61	5.1	8.2	0.72	1.37			
	138	6	69.8	0.68	5.3	7.6					
	461	4	51.5	0.50	5.6	10.9	1.02	0.61			
	1058	5	62.7	0.61	5.4	8.6	0.75	1.41			
	237	6	70.3	0.69	4.7	6.7	0.49	1.11			
	59	7	75.5	0.74	6.0	8.0					
	508	4	52.4	0.51	6.2	11.8	0.83	0.73			
	597	5	62.7	0.61	6.2	9.9	0.60	0.82			
	449	6	70.0	0.68	5.9	8.4	0.52	1.05			
	86	7	76.2	0.75	5.9	7.7					
	593	4	55.3	0.54	6.0	10.9	0.84	0.28			
	1602	5	64.6	0.63	5.1	7.9	0.75	1.27			
	718	6	72.1	0.71	4.9	6.8	0.56	1.08			
	349	7	77.4	0.76	4.6	5.9	0.48	1.04			
	47	8	82.2	0.80	5.5	6.7					
	649	4	56.0	0.55	7.3	13.0	0.75	0.33			
	1303	5	65.2	0.64	5.0	7.7	0.63	1.18			
	680	6	71.7	0.70	5.4	7.5	0.50	0.98			
	195	7	77.0	0.75	5.2	6.8	0.50	1.00			
	107	8	82.2	0.80	5.2	6.3					
	571	4	55.9	0.55	5.7	10.2	0.93	0.21			
	2686	5	65.5	0.64	4.6	7.0	0.74	1.15			
	1416	6	72.2	0.71	4.5	6.2	0.60	1.29			
	495	7	78.0	0.76	5.1	6.5	0.35	0.73			
	146	8	81.7	0.80	5.4	6.6	0.47	0.94			
	62	9	86.8	0.85	5.5	6.3					
	323	4	55.3	0.54	4.9	8.9	0.84	0.43			
	658	5	63.9	0.63	5.3	8.3	0.85	0.68			
	841	6	72.6	0.71	5.0	6.9	0.56	1.08			
	363	7	78.0	0.76	4.7	6.0	0.51	1.06			
	143	8	83.0	0.81	5.1	6.2	0.21	0.43			
	51	9	85.2	0.83	5.3	6.2					
	716	4	54.2	0.53	6.2	11.4	0.90	0.77			
	821	5	64.2	0.63	4.9	7.6	0.66	1.27			
	380	6	70.8	0.69	5.1	7.2	0.76	0.61			
	464	7	78.3	0.77	4.8	6.1	0.42	0.88			
	162	8	82.5	0.81	5.2	6.3	0.37	0.81			
	92	9	86.7	0.85	6.1	7.0					
	1674	5	63.6	0.62	5.3	8.3	0.54	1.08			
	485	6	69.3	0.68	5.2	7.5	0.68	1.35			
	204	7	76.6	0.75	5.5	7.2	0.56	0.42			
	221	8	82.2	0.80	4.5	5.5	0.35	0.80			
	138	9	85.8	0.84	5.7	6.6					
	1400	6	70.2	0.69	5.5	7.8	0.46	0.91			
	329	7	75.2	0.74	5.4	7.2	0.43	0.85			
	121	8	79.8	0.78	5.4	6.8	0.50	0.11			
	175	9	85.0	0.83	5.1	6.0					
	573	7	75.8	0.74	6.1	8.1	0.38	0.72			
	142	8	80.2	0.78	5.6	7.0	0.30	0.54			
	51	9	83.2	0.81	4.5	5.4					
	352	8	81.0	0.79	6.4	7.9	0.28	0.50			
	80	9	84.2	0.82	5.2	6.2					
	277	9	85.8	0.84	6.5	7.6					
436	17	1	5.6	0.63	0.6	9.9	1.10	1.09			
	24	2	7.0	0.79	0.8	11.0	0.56	0.52			
	26	3	7.9	0.89	0.8	9.9	0.31	0.51			
	10	4	8.3	0.94	0.6	7.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
437	42	2	16.2	0.22	1.3	8.3	1.31	0.82	N	0.444	0.622
	147	3	20.3	0.27	1.8	9.0	0.72	0.55	N	- 0.015	- 0.275
	188	4	23.0	0.31	2.0	8.5	0.79	1.38	N	0.038	- 0.457
	81	5	26.4	0.36	2.4	8.9	0.85	1.02	S	0.149	0.411
	62	6	30.5	0.41	2.4	8.0	0.69	0.74	N	0.042	0.531
	64	7	34.1	0.46	2.8	8.3	0.46	0.74	N	- 0.156	- 0.234
	46	8	36.6	0.49	2.5	6.8	0.25	0.53	S	1.540	3.407
	24	9	37.9	0.51	3.0	7.9	0.53	1.07	N	0.207	- 0.808
	13	10	41.2	0.55	3.1	7.6	0.23	0.51	O	2.064	5.145
	6	11	42.8	0.58	4.3	10.1	0.60	0.65	O	1.115	0.012
	4	12	46.8	0.63	2.2	4.8			O	- 0.482	- 1.700
438	116	1	8.2	0.31	1.0	12.1	2.27	2.02			
	329	2	12.6	0.48	1.0	7.5	0.86	1.16			
	333	3	15.4	0.59	2.3	14.9	0.81	1.09			
	100	4	18.0	0.68	0.9	5.0	1.15	1.56			
	34	5	19.8	0.75	0.7	3.4	1.01	1.49			
	16	6	21.4	0.81	0.9	4.3	0.69	1.10			
	9	7	22.6	0.86	0.8	3.7	0.00	0.00			
	3	8	24.1	0.92	0.0	0.0	0.00	0.00			
	2	9	25.1	0.95	0.0	0.0					
	1	10	26.0	0.99	0.0	0.0					
	1	11	27.7	1.05	0.0	0.0					
439	34	0	11.1	0.34	2.2	20.2	0.88	0.00			
	174	1	15.3	0.46	2.6	16.7	0.98	0.66			
	319	2	20.1	0.61	2.4	11.7	0.51	0.98			
	172	3	22.5	0.68	2.3	10.3	0.50	0.69			
	138	4	24.8	0.75	2.3	9.1	0.31	0.22			
	155	5	26.3	0.79	2.6	10.0	0.32	0.61			
	109	6	28.0	0.85	2.7	9.7	0.07	0.11			
	73	7	28.4	0.86	3.2	11.1	0.08	0.00			
	57	8	27.9	0.84	3.2	11.5	0.17	0.28			
	34	9	28.9	0.87	2.6	9.0	0.02	0.04			
	25	10	29.0	0.88	3.2	10.9	0.17	0.13			
	26	11	30.1	0.91	3.3	11.0	0.13	0.21			
	8	12	30.9	0.93	2.7	8.7					
440	24	0	9.8	0.27	1.8	18.6	1.08	0.22			
	122	1	14.3	0.40	2.3	16.4	1.05	0.73			
	238	2	19.1	0.53	2.2	11.6	0.77	1.09			
	145	3	22.5	0.62	2.2	9.8	0.61	1.27			
	73	4	25.6	0.71	2.9	11.3	0.47	0.45			
	77	5	28.4	0.78	3.1	10.9	0.50	0.81			
	54	6	31.4	0.87	2.9	9.2	0.03	0.00			
	18	7	31.2	0.86	3.4	10.7	0.52	0.99			
	6	8	34.5	0.95	2.9	8.5	0.33	0.00			
	2	9	31.3	0.00	6.6	21.2					
441	104	1	12.9	0.42	3.4	26.5	0.93	0.85			
	86	2	17.0	0.56	1.1	6.5	1.44	1.73			
	28	3	19.6	0.64	0.7	3.6	1.65	1.71			
	17	4	21.8	0.71	0.6	2.9	1.99	2.22			
	7	5	24.1	0.79	0.5	2.2					
442	315	1	10.1	0.33	5.3	52.6	0.67	0.62			
	239	2	15.3	0.50	2.4	15.7	0.96	1.08			
	99	3	18.5	0.60	1.0	5.2	1.91	2.08			
	27	4	21.3	0.69	0.5	2.5	2.69	2.83			
	6	5	23.8	0.78	0.4	1.7					
443	72	1	15.8	0.48	1.8	11.5	1.18	0.93	N	- 0.174	- 0.743
	132	2	19.7	0.59	1.5	7.6	0.98	1.47	N	0.045	- 0.349
	60	3	22.9	0.69	1.7	7.6	0.78	1.27	N	- 0.063	- 0.635
	22	4	25.2	0.76	1.3	5.0	1.70	2.16	O	0.349	- 0.789
	4	5	29.0	0.87	1.0	3.5			O	2.000	4.000
444	48	2	15.0	0.36	2.2	14.4	0.94	0.19	N	0.210	- 1.150
	232	3	18.8	0.45	1.9	9.9	0.87	1.08	N	- 0.058	- 0.477
	154	4	21.9	0.52	1.8	8.2	0.66	1.28	N	0.140	- 0.129
	73	5	24.4	0.58	2.0	8.2	0.57	1.00	N	0.201	0.229
	37	6	26.5	0.63	1.7	6.3	0.58	1.39	N	1.238	1.905
	12	7	28.8	0.69	2.4	8.2	0.52	1.31	O	0.533	- 1.030
	6	8	32.0	0.76	3.7	11.5	0.87	0.98	O	- 0.144	- 1.633
	4	9	37.5	0.89	2.7	7.1			O	- 0.864	- 0.286

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
445	25	1	23.8	0.31	2.2	9.4	1.11	0.18			
	180	2	29.0	0.38	2.5	8.5	1.05	0.98			
	203	3	34.2	0.45	2.5	7.3	0.64	0.36			
	323	4	38.2	0.50	3.8	9.9	0.72	0.40			
	501	5	42.9	0.56	2.7	6.3	0.46	0.81			
	235	6	45.1	0.59	2.1	4.7	0.71	1.13			
	138	7	48.3	0.63	2.4	4.9	0.49	0.93			
	68	8	50.5	0.66	2.1	4.2	0.44	1.05			
	38	9	52.7	0.69	2.9	5.6	0.30	0.27			
	35	10	54.3	0.71	2.4	4.4	0.31	0.62			
	19	11	55.8	0.73	2.4	4.3	1.24	1.35			
	10	12	60.4	0.79	1.4	2.2					
446	17	2	28.8	0.38	1.9	6.6	1.07	0.89			
	26	3	33.1	0.43	2.1	6.4	0.98	0.94			
	29	4	37.4	0.49	2.3	6.0	0.64	0.22			
	50	5	40.2	0.53	2.2	5.4	0.47	1.07			
	31	6	42.5	0.56	2.7	6.4	0.59	0.59			
	27	7	45.3	0.59	2.0	4.4	0.49	1.04			
	14	8	47.4	0.62	2.3	4.9	0.47	0.22			
	18	9	49.6	0.65	2.3	4.7					
447	1140	0	11.2	0.20	1.5	13.2	2.11	2.10	S	0.450	- 0.260
	1184	1	17.6	0.31	1.6	9.0	1.48	1.51	N	0.080	- 0.547
	1172	2	22.4	0.39	1.6	7.2	1.12	1.11	N	- 0.026	- 0.399
	1149	3	26.1	0.46	1.7	6.4	0.93	1.02	N	0.073	0.270
	1024	4	29.2	0.51	1.7	5.8	0.83	0.95	N	0.079	0.328
	865	5	32.0	0.56	1.6	5.1	0.71	0.80	S	0.190	0.248
	781	6	34.3	0.60	1.6	4.7	0.61	0.69	N	0.242	0.057
	715	7	36.2	0.64	1.6	4.4	0.55	0.63	N	0.161	0.061
	636	8	37.9	0.67	1.6	4.2	0.49	0.69	N	0.097	- 0.235
	522	9	39.5	0.70	1.6	4.1	0.44	0.81	N	- 0.143	- 0.264
	383	10	40.9	0.72	1.6	3.8	0.45	0.89	N	- 0.115	- 0.215
	256	11	42.3	0.74	1.6	3.7	0.44	0.89	N	- 0.256	0.237
	161	12	43.7	0.77	1.6	3.8	0.34	0.67	N	- 0.066	- 0.191
	98	13	44.8	0.79	1.6	3.6	0.35	0.68	N	- 0.104	- 0.231
	61	14	46.0	0.81	1.7	3.7	0.26	0.48	N	- 0.183	- 0.559
	38	15	46.8	0.82	1.6	3.4	0.32	0.56	N	- 0.095	- 1.116
	26	16	47.8	0.84	1.5	3.2	0.55	0.98	N	- 0.016	- 0.819
	15	17	49.4	0.87	1.4	2.7	0.07	0.07	O	- 0.456	- 0.584
	5	18	49.6	0.87	1.5	3.1	0.24	0.46	O	- 0.315	- 3.081
	3	19	50.3	0.89	1.5	3.0			O	0.935	0.000
448	68	2	20.1	0.34	2.1	10.4	0.92	0.57	N	0.366	- 0.201
	127	3	24.1	0.41	2.2	9.1	0.91	0.87	N	0.081	- 0.568
	128	4	27.8	0.47	1.9	6.7	0.72	1.13	N	0.491	- 0.146
	76	5	30.5	0.52	2.0	6.5	1.22	1.32	N	0.460	0.688
	57	6	35.3	0.60	2.0	5.6	0.56	0.70	N	0.142	0.108
	46	7	37.4	0.64	1.7	4.6	0.49	0.52	N	0.380	- 0.111
	48	8	39.3	0.67	2.1	5.3	0.45	0.97	N	- 0.057	- 0.094
	30	9	41.3	0.71	2.5	6.1	0.36	0.32	N	0.105	0.252
	30	10	43.1	0.74	2.3	5.4	0.46	0.91	N	- 0.341	- 0.514
	17	11	45.3	0.77	2.4	5.3	0.15	0.37	O	0.070	0.748
	12	12	46.2	0.79	3.6	7.8	0.10	0.20	N	0.442	- 0.766
	10	13	46.9	0.80	3.5	7.5			O	0.533	- 0.345
449	59	1	11.1	0.26	1.1	10.3	2.77	2.82	N	0.167	- 0.888
	48	2	18.2	0.43	1.4	7.9	1.16	1.60	N	0.193	- 0.568
	20	3	22.1	0.52	1.9	8.5	0.74	1.17	O	0.238	0.584
	6	4	24.3	0.57	1.2	5.0	1.12	0.66	O	0.075	- 1.550
	16	5	27.1	0.64	1.2	4.6	0.38	1.05	O	- 0.858	1.054
	10	6	28.4	0.67	2.3	8.0			O	0.732	0.296
450	16	0	9.6	0.23	1.0	10.7	3.12	2.93	O	0.039	- 1.067
	54	1	16.4	0.39	1.2	7.1	1.93	2.33	N	- 0.425	- 0.430
	14	2	21.4	0.50	1.4	6.5			O	- 0.354	- 0.760

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
451	15	3	26.5	0.46	2.8	10.4	0.52	0.00	O	0.376	- 0.460
	26	4	29.7	0.52	3.3	11.2	0.10	0.00	N	0.151	- 0.557
	34	5	30.4	0.53	3.3	10.7	0.31	0.03	N	- 0.167	- 0.762
	43	6	32.6	0.57	3.8	11.8	0.29	0.57	N	- 0.249	- 0.609
	31	7	34.8	0.61	3.9	11.2	0.23	0.46	N	- 0.320	- 0.457
	15	8	36.7	0.64	4.1	11.0	0.36	0.52	O	- 0.108	- 0.315
	13	9	39.5	0.69	3.8	9.7	0.18	0.47	O	- 0.446	0.210
	7	10	41.4	0.73	6.6	15.9	0.45	0.68	O	- 0.854	- 0.065
	4	11	46.0	0.81	3.7	7.9			O	0.000	- 3.300
452	117	3	25.2	0.67	0.6	2.3					
	50	3	23.5	0.63	1.5	6.3					
	123	3	23.5	0.63	0.4	1.6					
	12	3	23.7	0.63	1.6	6.7					
	238	3	24.3	0.65	0.6	2.5					
	228	3	25.4	0.68	0.4	1.6					
	33	3	25.4	0.68	0.9	3.4					
	114	3	25.0	0.67	0.6	2.5					
	174	3	25.6	0.69	0.7	2.8					
	898	4	26.5	0.71	0.5	1.9					
	119	4	27.4	0.73	1.0	3.6					
	301	4	26.8	0.72	1.1	4.2					
	60	4	27.5	0.74	1.5	5.6					
	220	4	28.3	0.76	0.8	2.8					
	550	4	29.4	0.79	0.7	2.3					
	183	4	28.1	0.75	0.8	2.9					
	59	4	27.5	0.73	1.1	4.2					
	167	4	28.9	0.77	1.0	3.4					
	223	5	28.9	0.77	0.8	2.8					
	158	5	28.5	0.76	1.3	4.6					
	39	5	30.3	0.81	2.1	6.8					
	912	5	30.1	0.80	0.5	1.6					
	110	5	32.5	0.87	1.1	3.3					
	71	5	31.4	0.84	1.4	4.6					
	193	5	31.9	0.85	0.9	2.8					
	115	5	31.1	0.83	1.2	3.8					
	36	5	31.4	0.84	1.2	3.7					
	117	6	30.2	0.81	1.5	5.0					
	34	6	30.0	0.80	2.8	9.4					
	30	6	30.0	0.80	2.1	7.0					
	172	6	32.4	0.87	1.3	4.0					
	694	6	34.1	0.91	0.7	1.9					
	23	6	32.9	0.88	3.1	9.6					
	77	6	34.0	0.91	1.4	4.2					
	122	6	33.6	0.90	1.2	3.5					
	83	6	33.0	0.88	2.0	6.1					
453	44	1	3.0	0.60	0.3	11.5	1.19	1.47			
	32	2	4.3	0.88	0.8	18.4	0.05	0.00			
	24	3	4.4	0.89	0.5	11.7					
454	6	1	3.2	0.54	0.2	5.9	3.83	3.61			
	35	2	5.4	0.90	0.4	6.9	0.34	0.54			
	5	3	5.7	0.95	0.5	8.8					
455	21	1	15.7	0.25	1.6	10.5	1.59	1.40			
	42	2	21.0	0.33	1.7	8.1	1.44	1.07			
	128	3	25.7	0.40	1.6	6.2	1.32	1.38			
	110	4	30.0	0.47	1.7	5.6	1.19	2.01			
	14	5	33.8	0.53	1.5	4.4	1.26	1.73			
	3	6	37.0	0.58	1.1	2.9					
456	1	1	16.6	0.22	0.0	0.0	0.00	0.00			
	30	2	22.0	0.30	1.0	4.5	2.76	2.55			
	75	3	27.6	0.37	1.1	3.8	2.53	2.48			
	121	4	32.4	0.44	0.8	2.6	2.57	2.62			
	95	5	36.6	0.49	0.8	2.2	2.64	2.78			
	28	6	40.3	0.54	0.6	1.5	1.95	2.42			
	7	7	43.5	0.59	1.1	2.4					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ2	g1	g2
457	10	1	16.9	0.22	1.4	8.5	1.82	1.47			
	45	2	21.6	0.28	1.1	5.2	1.58	1.33			
	97	3	25.6	0.33	1.4	5.4	1.50	1.44			
	117	4	29.9	0.38	1.5	4.9	1.29	1.43			
	80	5	33.4	0.43	1.3	3.9	1.42	1.85			
	27	6	37.6	0.48	1.6	4.4	0.89	1.52			
	6	7	40.2	0.51	1.2	3.1					
458	12	1	17.3	0.22	1.9	10.8	1.44	1.18			
	26	2	22.5	0.28	1.8	7.8	1.68	1.59			
	36	3	28.4	0.36	1.8	6.2	1.26	1.14			
	47	4	32.7	0.41	1.7	5.2	1.38	1.24			
	69	5	37.3	0.47	1.6	4.3	1.37	1.56			
	46	6	41.9	0.53	1.8	4.2	0.83	1.31			
	19	7	44.7	0.56	1.6	3.7					
459	749	1	14.0	0.32	1.9	13.7	1.32	1.36			
	735	2	19.2	0.43	2.1	10.7	1.00	1.12			
	589	3	23.5	0.53	2.3	9.8	0.77	1.04			
	382	4	27.1	0.61	2.3	8.6	0.58	1.24			
	177	5	30.1	0.68	2.8	9.2	0.40	0.87			
	44	6	32.5	0.74	3.3	10.2	0.47	0.60			
	6	7	34.5	0.78	0.9	2.7					
460	539	1	12.7	0.19	2.3	17.7	1.09	1.16			
	534	2	18.0	0.26	2.6	14.6	0.94	1.03			
	456	3	22.9	0.33	2.5	10.9	0.85	1.00			
	371	4	27.2	0.40	2.6	9.7	0.69	1.10			
	239	5	31.2	0.46	3.1	10.0	1.06	1.32			
	140	6	37.7	0.55	3.1	8.2	0.04	0.06			
	68	7	38.0	0.55	2.9	7.5	0.56	1.02			
	24	8	40.9	0.60	2.4	5.9	0.53	1.08			
	5	9	43.5	0.64	2.6	5.9					
461	14	2	57.1	0.55	3.5	6.2	0.54	0.00	O	- 0.200	- 0.222
	28	3	61.3	0.59	4.4	7.1	1.16	1.03	N	0.146	- 1.222
	34	4	69.9	0.67	3.0	4.3	1.05	1.10	N	- 0.479	- 0.304
	26	5	75.5	0.72	2.3	3.0	0.47	0.96	O	0.030	- 0.931
	6	6	77.7	0.75	2.4	3.1			O	- 1.952	3.657
462	11	2	54.3	0.20	1.7	3.1	1.17	0.71	O	1.000	- 0.665
	31	3	60.2	0.22	3.3	5.6	1.47	1.41	N	0.231	- 0.724
	35	4	69.6	0.25	3.1	4.4	1.14	1.27	N	- 0.869	0.377
	26	5	76.6	0.28	3.1	4.0	0.80	1.18	N	- 0.593	0.119
	12	6	80.9	0.29	2.3	2.9	1.51	1.50	O	1.020	- 0.324
	10	7	86.5	0.31	1.4	1.6			O	0.434	- 0.283
463	19	0	10.7	0.41	0.9	8.6	1.65	1.31	O	- 0.944	0.129
	58	1	13.6	0.51	0.8	5.9	1.65	1.74	O	0.324	- 0.436
	52	2	16.3	0.62	0.8	5.2	1.11	1.79	O	0.300	- 0.042
	12	3	18.2	0.69	0.9	4.9	0.78	1.13	O	1.733	3.810
	4	4	19.3	0.73	0.5	2.6			O	- 2.000	4.000
464	21	0	8.0	0.26	1.4	17.5	1.59	1.14			
	89	1	12.2	0.39	1.2	10.2	1.26	1.21			
	83	2	15.0	0.48	1.0	6.5	1.03	0.82			
	124	3	17.1	0.55	1.1	6.2	0.95	1.60			
	41	4	19.4	0.62	1.4	7.0	1.09	1.48			
	13	5	21.8	0.70	0.9	3.9	0.00	0.00			
	2	6	23.0	0.73	0.0	0.0					
	1	7	26.5	0.85	0.0	0.0					
	1	8	28.9	0.92	0.0	0.0					
465	29	0	8.1	0.30	1.6	19.4	1.38	0.96			
	95	1	12.0	0.44	1.3	10.5	1.27	1.11			
	124	2	14.9	0.55	1.0	6.9	1.07	1.17			
	102	3	17.1	0.63	1.0	6.0	1.17	1.67			
	27	4	19.3	0.71	0.9	4.5	0.76	1.74			
	7	5	20.9	0.77	1.3	6.0					
	1	6	25.5	0.93	0.0	0.0					

Record	n	Age	Length (cm)	Relative length	Standard deviation	Coefficient of variation	Overlap Index 1	Overlap Index 2	χ^2	g1	g2
466	31	1	9.1	0.37	1.8	19.3	1.20	1.19	S	0.748	- 0.734
	28	2	13.1	0.53	1.6	11.9	0.86	0.96	N	- 0.001	- 0.627
	27	3	16.1	0.66	1.9	12.1	0.70	0.62	N	0.195	0.235
	30	4	18.9	0.77	2.1	11.0	0.27	0.53	N	0.830	0.643
	13	5	20.0	0.82	2.1	10.4			O	- 1.179	1.389
467	2	1	4.0	0.14	0.2	5.1	4.37	4.50			
	4	2	7.5	0.27	0.6	8.1	1.59	1.15			
	14	3	10.0	0.36	1.0	9.8	1.02	1.12			
	14	4	12.6	0.46	1.5	12.2	0.70	0.45			
	20	5	14.8	0.54	1.7	11.5	0.41	0.94			
	7	6	16.5	0.60	2.2	13.3	0.29	0.00			
	9	7	17.8	0.65	2.5	14.2	0.59	0.56			
	4	8	19.5	0.71	0.3	1.7	0.01	0.00			
	2	9	19.5	0.71	0.9	4.8					
468	2	1	4.0	0.26	0.2	5.1	3.90	4.00			
	5	2	7.3	0.48	0.7	9.0	2.15	2.27			
	4	3	11.2	0.73	1.1	10.1	0.28	0.00			
	8	4	11.7	0.77	0.9	7.4	0.69	0.34			
	13	5	13.1	0.86	1.2	9.1	0.29	0.42			
	11	6	13.8	0.90	1.0	7.1	0.26	0.31			
	9	7	14.2	0.93	0.7	4.7	0.33	0.75			
	4	8	14.8	0.97	1.1	7.5					

References

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