



RECORD 1980/50

Supplement to : 'Biometrical studies of
Early Neogene larger Foraminifera from
Australia and New Zealand'

by

G.C. Chaproniere

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This Record contains the
background data for the
paper by G.C. Chaproniere
published in Alcheringa,
Vol. 4, 1980.

Pop. No.	Catalog. No.	Stratigraphic Unit	Planktic Zone	Locality	L.F. Taxa studied
CB1	53674	Bullara Limestone	N.3/4	Rough Range South No.1 Well	<i>H.b.</i> , <i>L.e.</i> , <i>L.s.</i>
CB2	68318	Mandu Calcarenite	N.6 - 7	Badjirrajirra Creek	<i>L.b.</i>
CB3	68320	Mandu Calcarenite	N.6 - 7	Badjirrajirra Creek	<i>C.e.</i> , <i>L.h.p.</i>
CB4	68324	Mandu Calcarenite	N.6 - 7	Badjirrajirra Creek	<i>C.e.</i> , <i>M.t.</i> , <i>L.h.p.</i>
CB5	70486	Mandu Calcarenite	N.6 - 7 - ?8	Ningaloo No.1 Well	<i>L.h.h.</i>
CB6	70490	Mandu Calcarenite	N.6 - 7	Ningaloo No.1 Well	<i>L.h.h.</i>
CB7	70494	Mandu Calcarenite	N.6 - 7	Ningaloo No.1 Well	<i>L.h.p.</i>
CB8	70495	Mandu Calcarenite	?N.5	Ningaloo No.1 Well	<i>M.d.</i>
CB9	70509	Mandu Calcarenite	?N.8	Sandy Point No.2 Well	<i>C.c.</i> , <i>L.h.h.</i>
CB10	70564	Mandu Calcarenite	?N.5	Learmonth No.1 Well	<i>C.e.</i> , <i>M.d.</i> , <i>L.h.p.</i>
CB11	MF6963	Mandu Calcarenite	N.6 - 7 - ?8	Muiron No.1 Well	<i>L.h.h.</i>
CB12	MF6964	Mandu Calcarenite	N.6 - 7 - ?8	Muiron No.1 Well	<i>L.h.h.</i>
CB13	MF6966	Mandu Calcarenite	N.6 - 7	Muiron No.1 Well	<i>C.e.</i>
CB14	MF6971	Mandu Calcarenite	N.6 - 7 - ?8	Mandu Mandu Creek	<i>C.c.</i> , <i>L.h.h.</i>
PB1	70433	Stark Bay Formation	N.9	Gage Roads No.2 Well	<i>L.h.h.</i>
PB2	72223	Stark Bay Formation	N.9	Gage Roads No.2 Well	<i>L.h.h.</i>
BG1	70603	Unnamed Calcarenite	N.6 - 7	Ashmore Reef No.1 Well	<i>M.t.</i> , <i>L.h.h.</i>
BG2	70604	Unnamed Calcarenite	N.6 - 7	Ashmore Reef No.1 Well	<i>C.e.</i> , <i>M.t.</i> , <i>L.h.p.</i>
BG3	70606	Unnamed Calcarenite	N.6 - 7	Ashmore Reef No.1 Well	<i>C.e.</i> , <i>L.j.</i>
Q1	70604	M.3	?N.9	Wreck Island No.1 Well	<i>L.h.h.</i>
V1	70605	Batesford Limestone	N.8	Batesford Quarry, Victoria	<i>L.h.h.</i>
V2	70606	Glencoe Limestone	N.8	Brock's Quarry, Victoria	<i>C.c.</i>
NZ1	70611	Waikuku Limestone	N.10 - 12	North Cape, New Zealand	<i>C.c.</i> , <i>H.b.</i>
NZ2	70612	Waikuku Limestone	N.10 - 12	North Cape, New Zealand	<i>L.o.w.</i>
NZ3	70612ii	Waikuku Limestone	N.10 - 12	North Cape, New Zealand	<i>L.o.w.</i>
NZ4	70613	Waitemata Group	N.5	Hokianga Harbour, New Zealand	<i>M.g.</i> , <i>L.o.o.</i>
NZ5	70614	Waitemata Group	N.3/4	Kaipara Harbour, New Zealand	<i>M.i.</i>
L.F. Larger Foraminiferal Taxa studied biometrically <i>C.c.</i> <i>Cycloclypeus (C.) carpenteri</i> <i>C.e.</i> <i>Cycloclypeus (C.) eidae</i> <i>H.b.</i> <i>Heterostegina borneensis</i> <i>M.d.</i> <i>Miogypsina (Miogypsinoides) dehaarti</i> <i>M.g.</i> <i>Miogypsina (Miogypsina) globulina</i> <i>M.i.</i> <i>Miogypsina (M.) intermedia</i> <i>M.t.</i> <i>Miogypsina (Lepidosemicyclina) thecidaeformis</i> <i>L.b.</i> <i>Lepidocyclina (Eulepidina) badjirraensis</i> <i>L.e.</i> <i>Lepidocyclina (E.) ehippiodes</i> <i>L.h.h.</i> <i>Lepidocyclina (Nephrolepidina) howchini</i> s.s. <i>L.h.p.</i> <i>Lepidocyclina (N.) howchini</i> subsp. nov. <i>L.j.</i> <i>Lepidocyclina (N.) japonica</i> <i>L.o.o.</i> <i>Lepidocyclina (N.) orakeiensis</i> s.s. <i>L.o.w.</i> <i>Lepidocyclina (N.) orakeiensis</i> subsp. nov. <i>L.s.</i> <i>Lepidocyclina (N.) sumatrensis</i>					

MPi773

Fig. 1. Catalogue numbers, locality, stratigraphic and taxonomic details for the populations of larger foraminiferids used in this study.

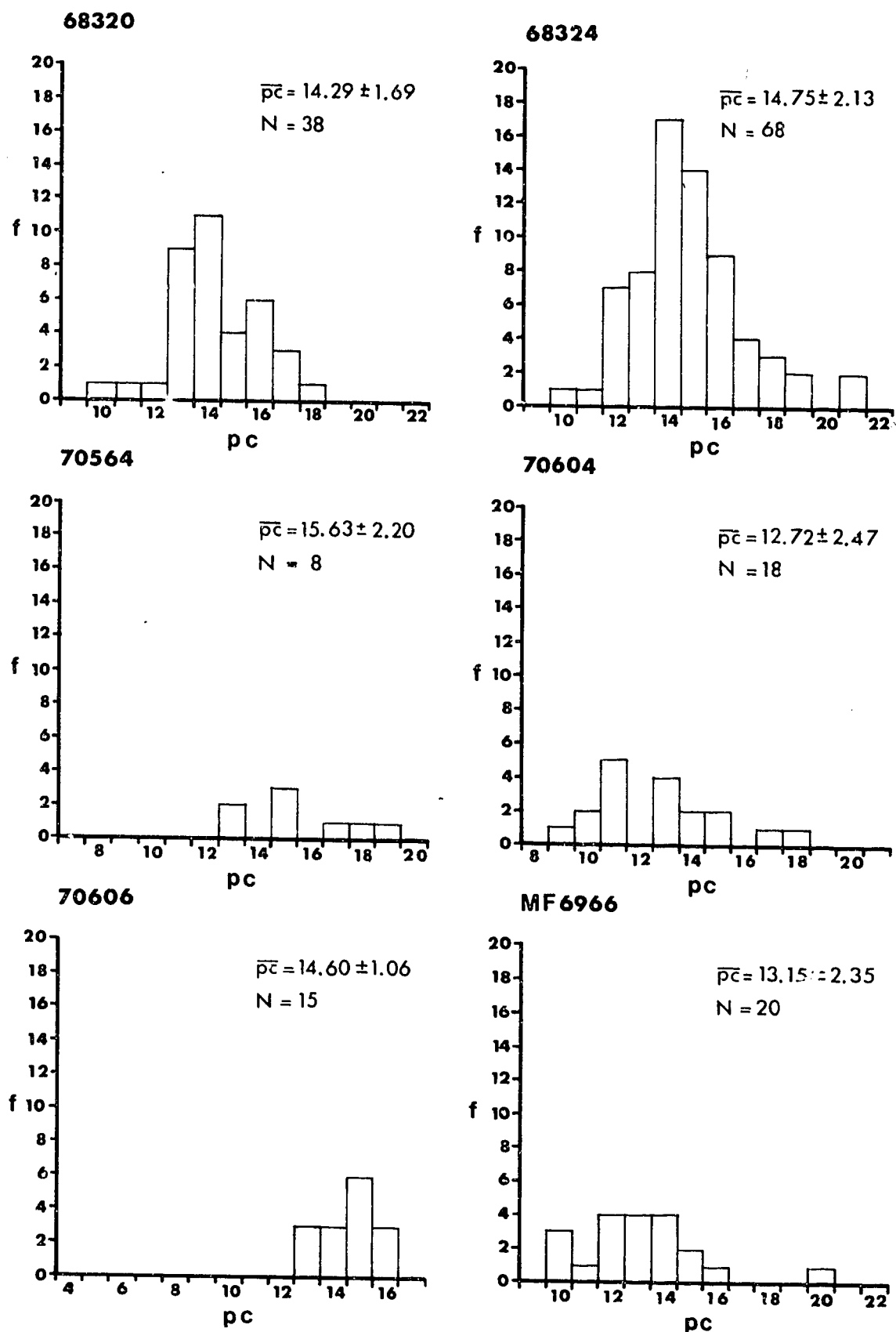


Fig. 2. Histograms for the frequency distribution of values for parameter *pc* in populations of *Cycloclypeus* (*C.*) *eidae*. Means, standard deviations and number of specimens studied are also given.

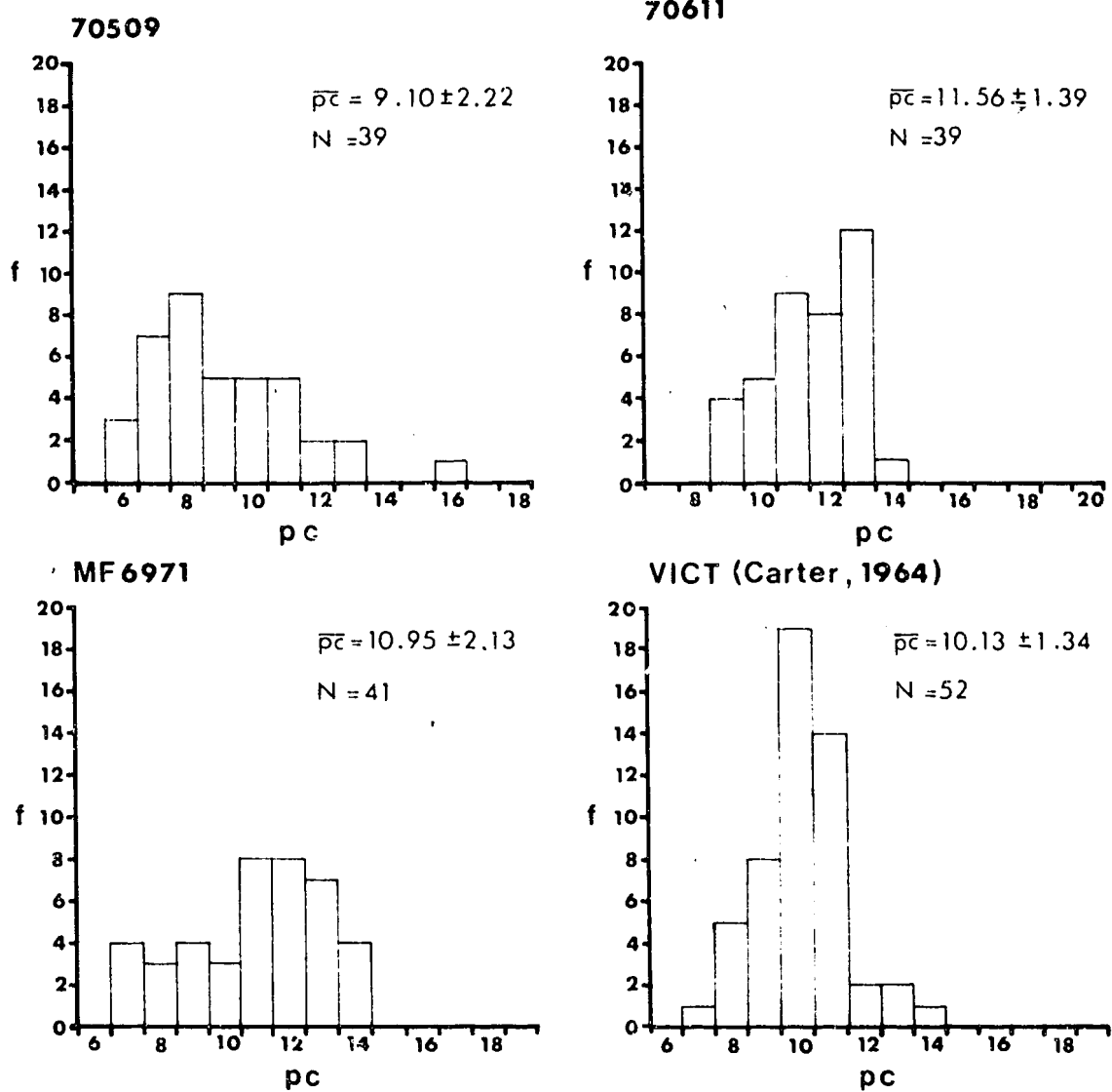


Fig. 3. Histograms for the frequency distributions of values for parameter pc in populations of Cycloclypeus (C.) carpenteri. Means, standard deviations and number of specimens studied are also given (see Fig. 1).

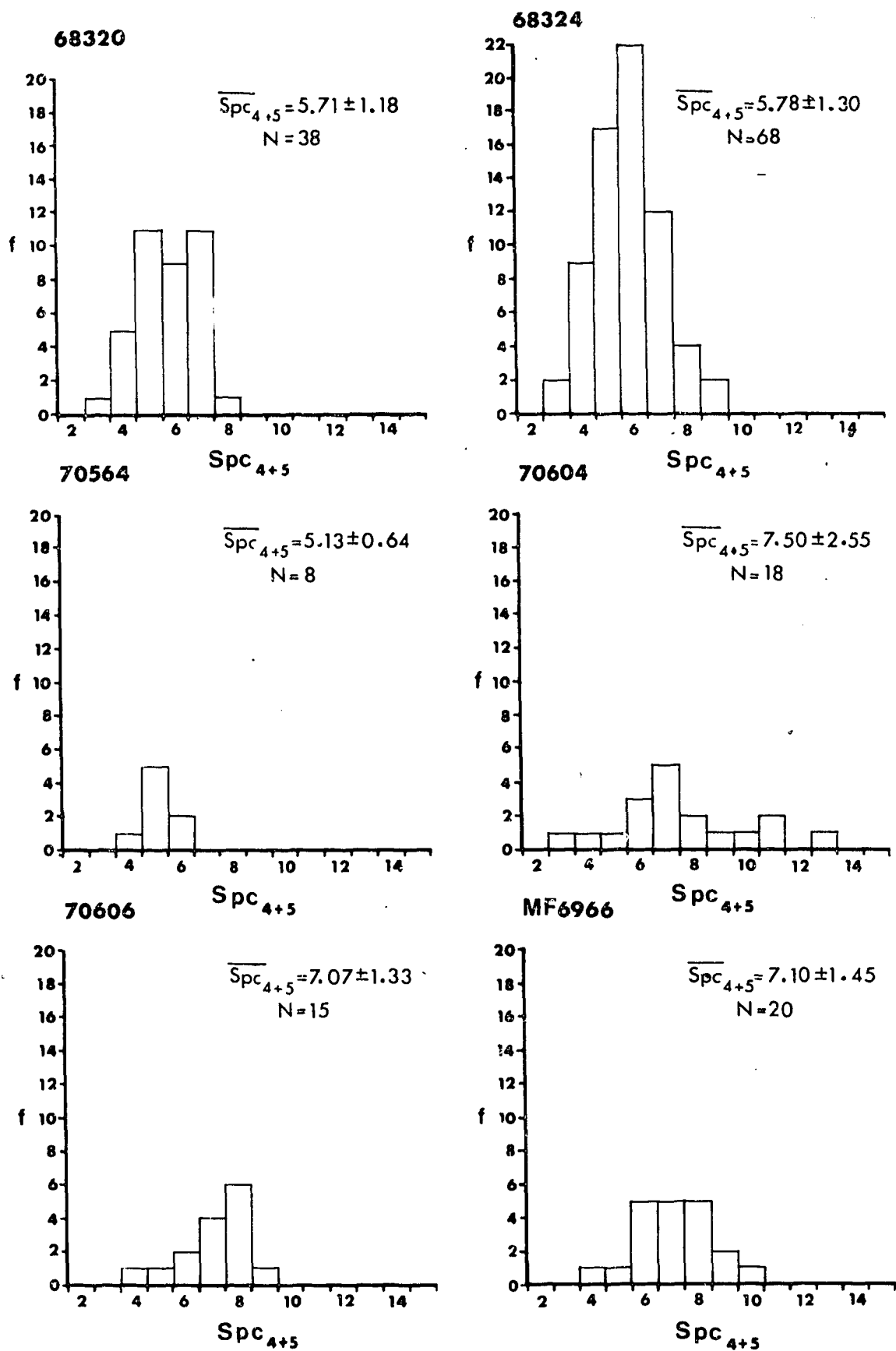


Fig. 4. Histograms for the frequency distributions of values for parameter Spc_{4+5} in populations of *Cycloclypeus* (*C.*) *eidae*. Means, standard deviations and number of specimens studied are also given.

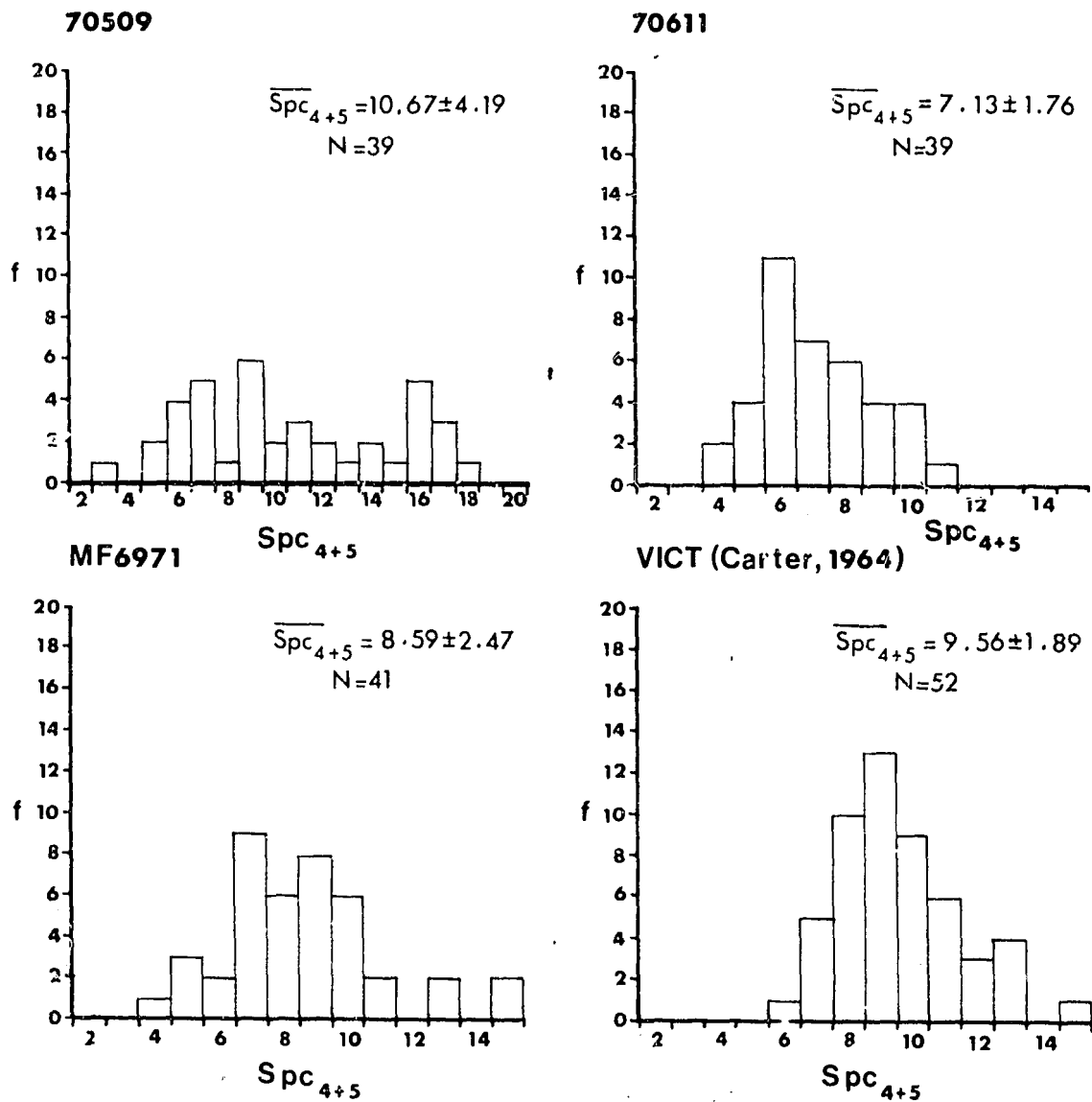


Fig. 5. Histograms for the frequency distributions of values for parameter Spc_{4+5} in populations of Cycloclypeus (C.) carpenteri. Means, standard deviations and number of specimens studied are also given.

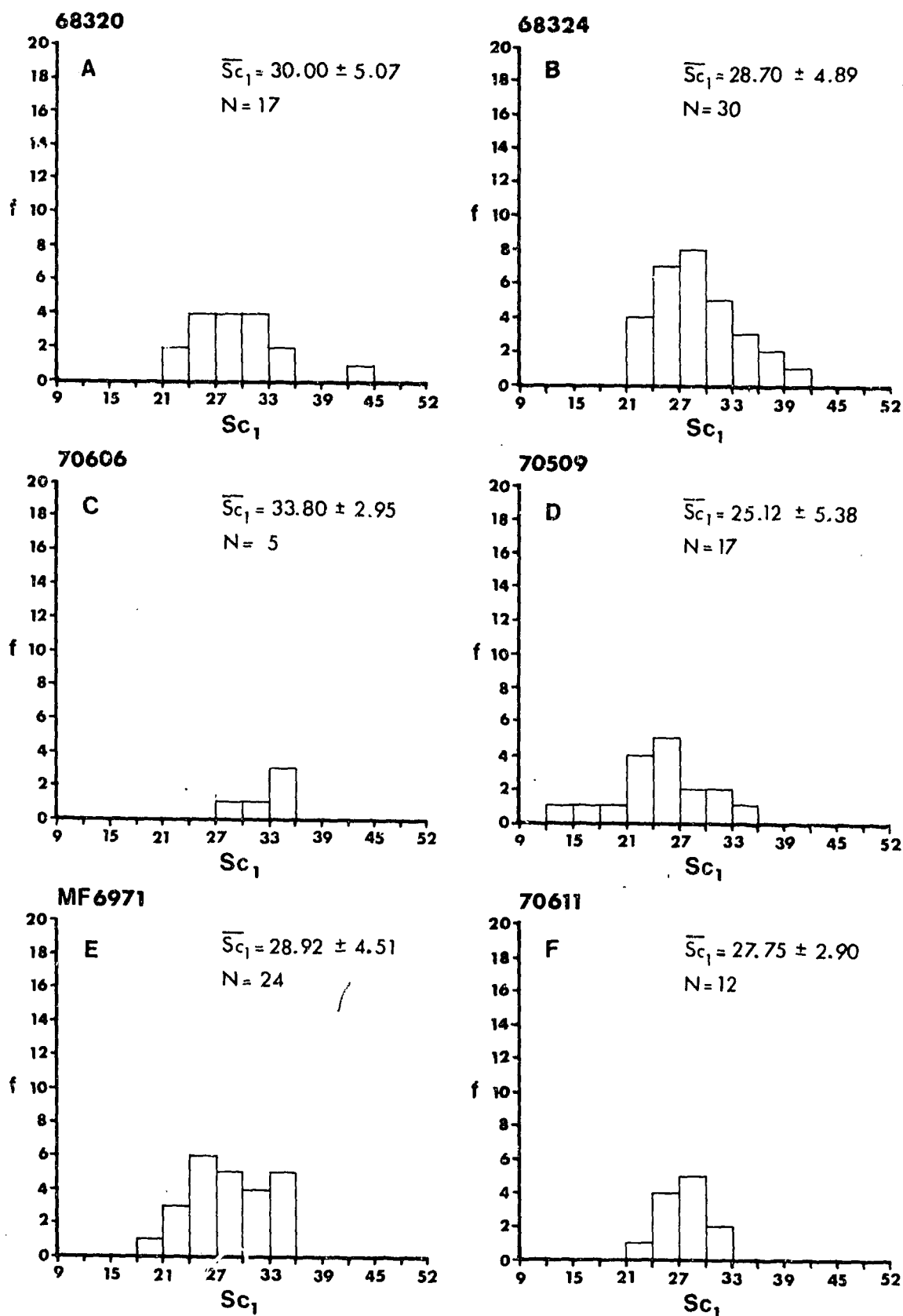


Fig. 6. Histograms for the frequency distribution of values for parameter Sc_1 in populations of Cycloclypeus (C.) eidae (A-C) and C. (C.) carpenteri (D-F). Means, standard deviations and number of specimens studied are also given.

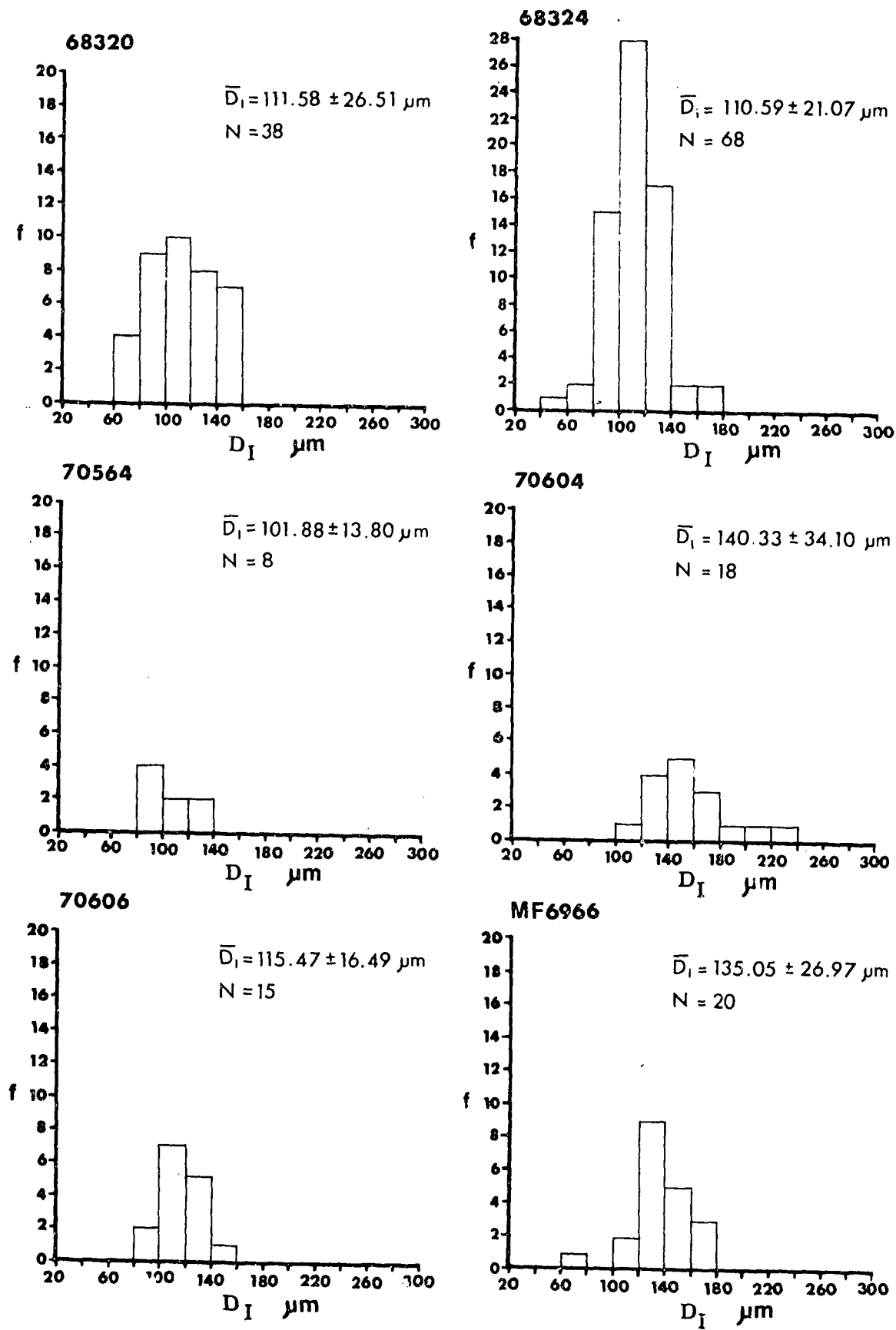


Fig. 7. Histograms for the frequency distributions of values for parameter D_I in populations of Cycloclypeus (C.) eidae. Means, standard deviations and number of specimens studied are also given.

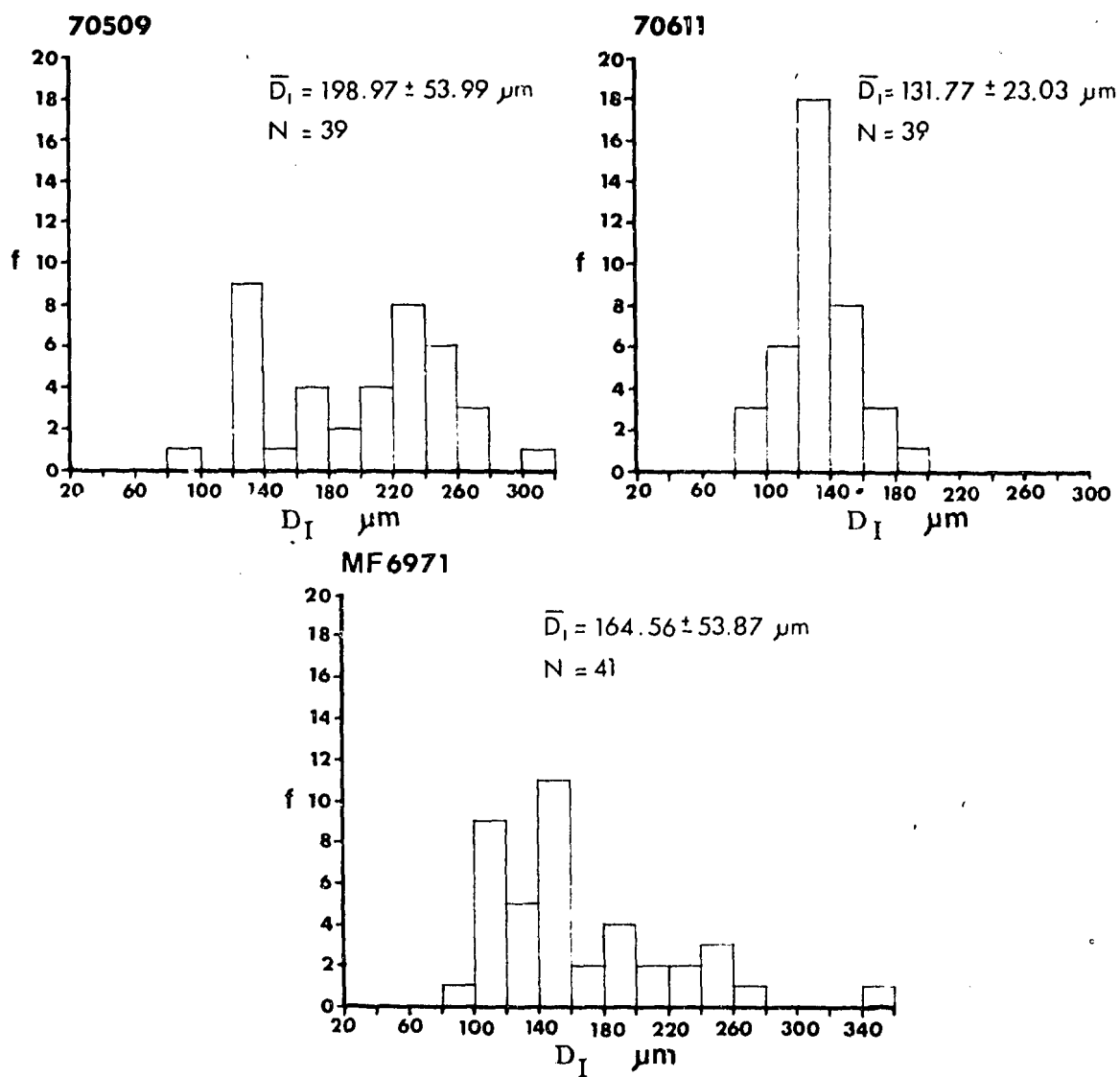


Fig. 8. Histograms for the frequency distributions of values for parameter D_I in populations of Cycloclypeus (C.) carpenteri. Means, standard deviations and number of specimens are also given.

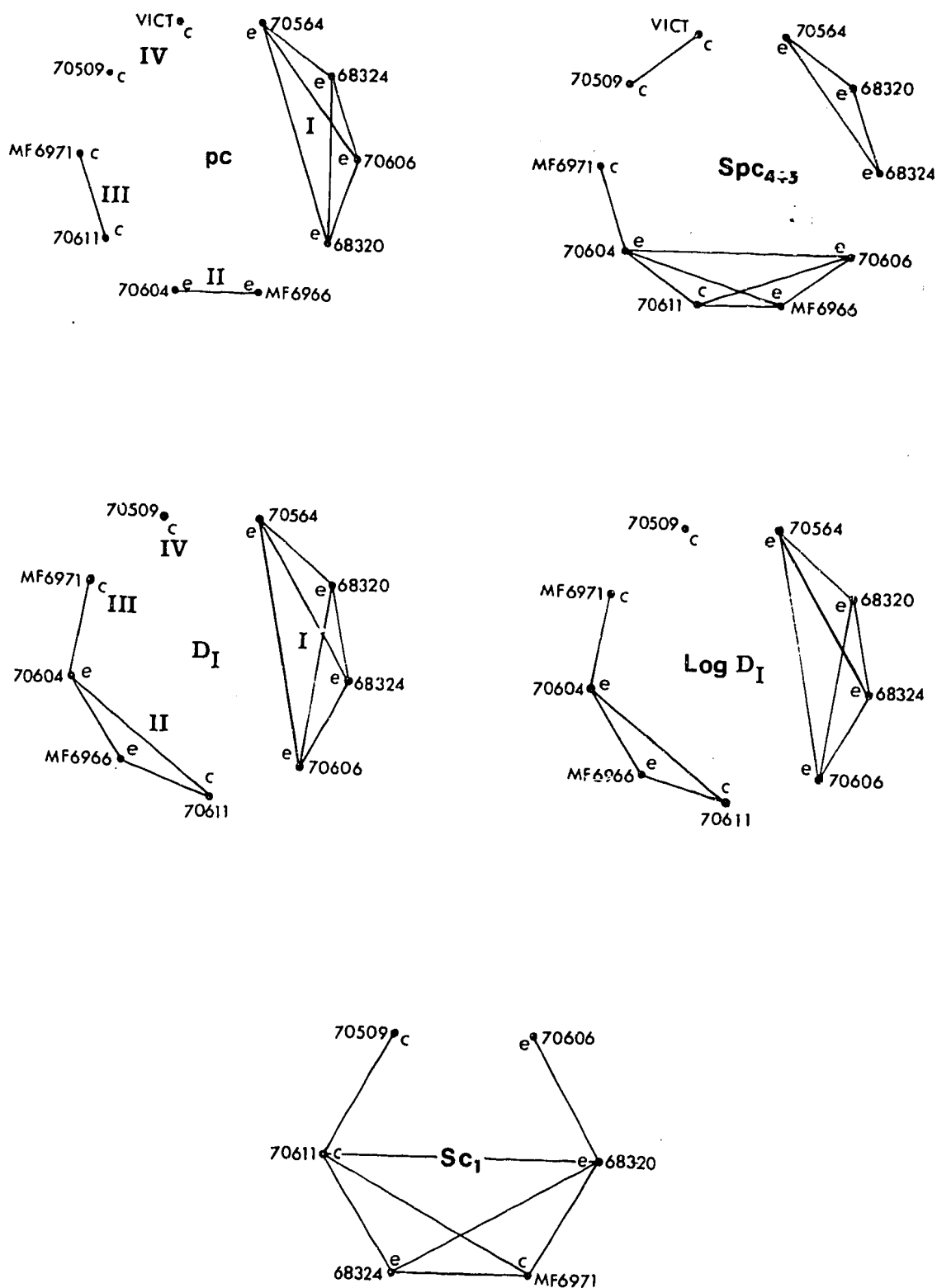


Fig. 9. Results of t-test for populations of Cycloclypeus (C.) eidae and C. (C.) carpenteri from Australia and New Zealand. Lines between populations indicates that differences between groups are non-significant at the 95% level of confidence. Populations placed in either C. eidae or C. carpenteri are indicated by e or c respectively. Roman numerals in the diagrams for parameters D_I and pc indicate groups which are explained in the text.

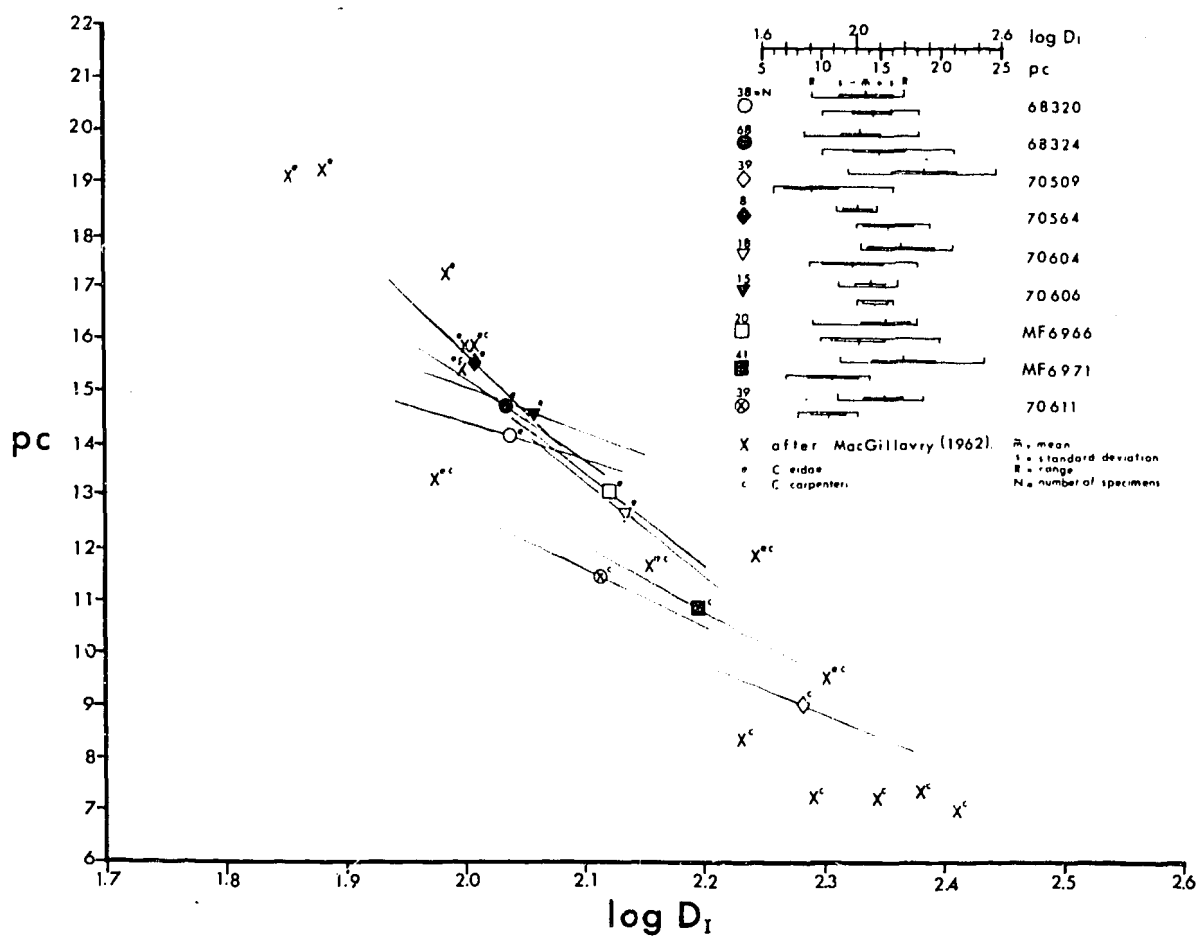


Fig. 10. Plots of mean values of parameter pc against mean values for parameter $\log D_I$ and the regression line Y on X for the total population studied from each sample, for populations of *Cycloclypeus* from Australia and New Zealand. Similar plots from studies made by MacGillavry (1962) have been introduced for comparison.

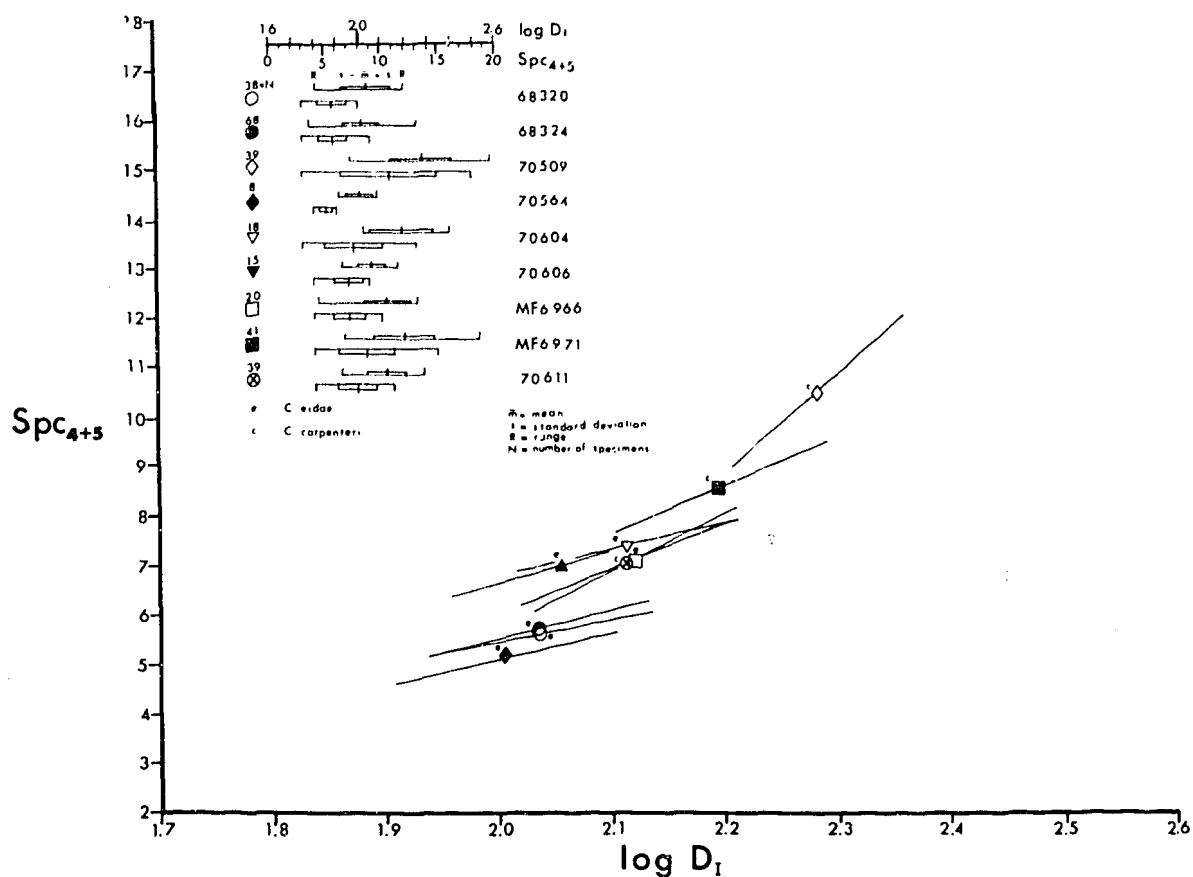


Fig. 11. Plots of mean values of parameter Spc_{4+5} against mean values for parameter $\log D_I$ and the regression line Y on X for the total population studied from each sample, for populations of Cyclocypeus from Australia and New Zealand.

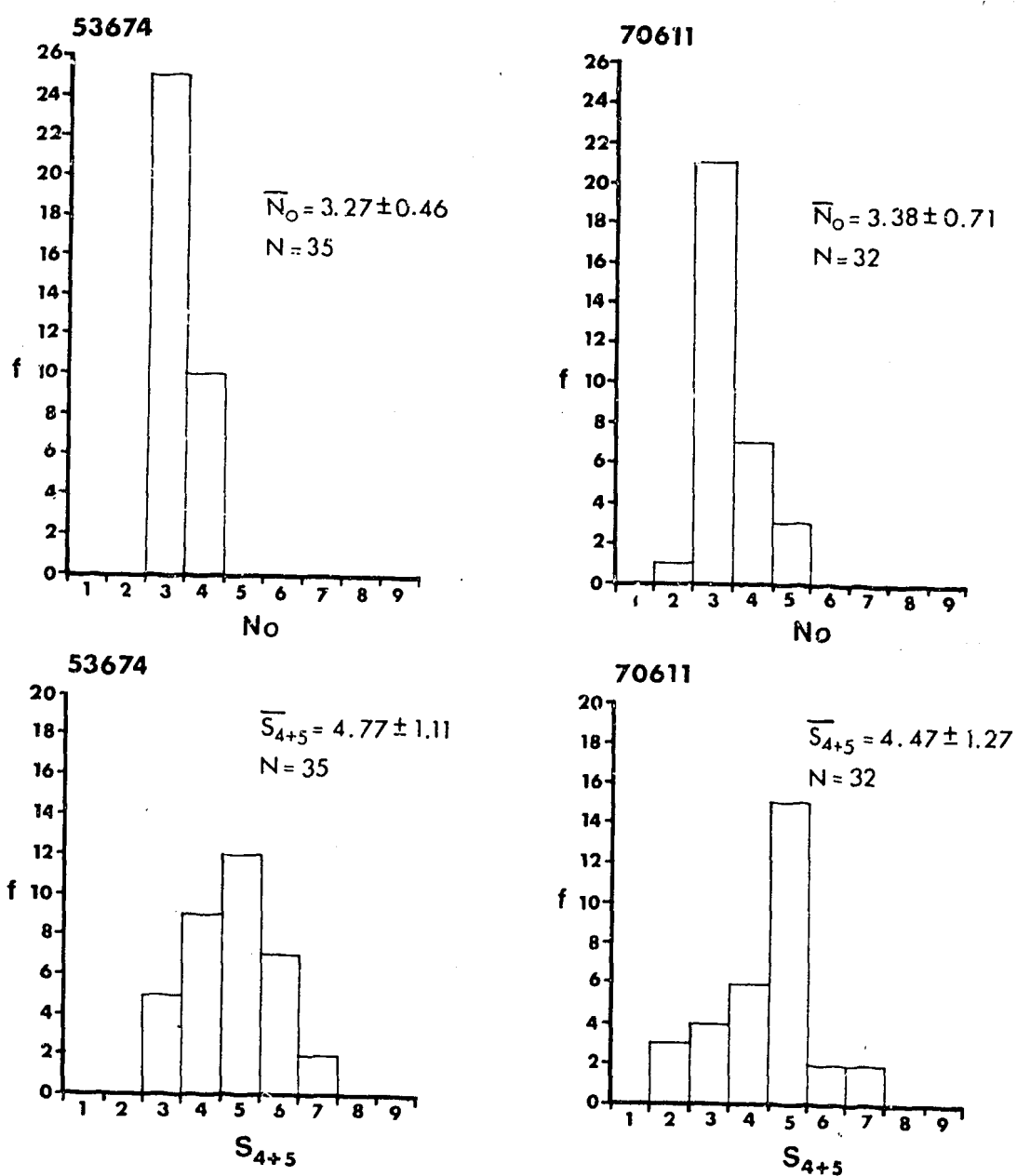


Fig. 12. Histograms for the frequency distributions of values for parameters N_o and S_{4+5} in populations of Heterostegina borneensis. Means, standard deviations and number of specimens studied are also given.

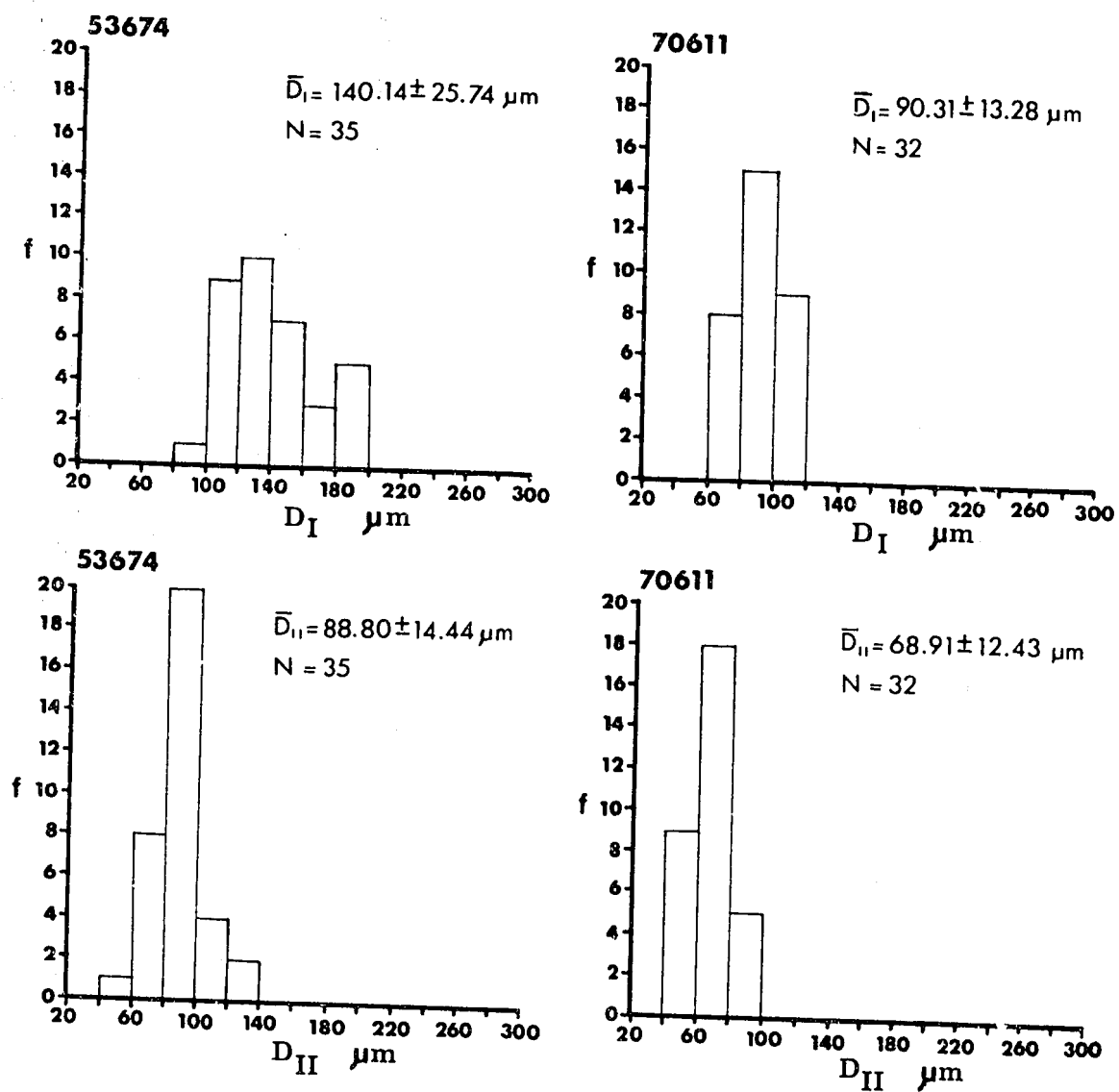


Fig. 13. Histograms for the frequency distributions of values for parameters D_I and D_{II} in populations of Heterostegina borneensis. Means, standard deviations and number of specimens studied are also given.

N _o	53674 70611	S ₄₊₅	53674 70611	D _I	53674 70611	D _{II}	53674 70611
53674 70611	. o . .	53674	. o . .	53674	. X . .	53674	. X . .

Fig. 14. Results of t-test for populations of Heterostegina borneensis from Australia and New Zealand. o indicates that the differences between groups are non-significant at the 95% level of confidence; X indicates that the differences are significant.

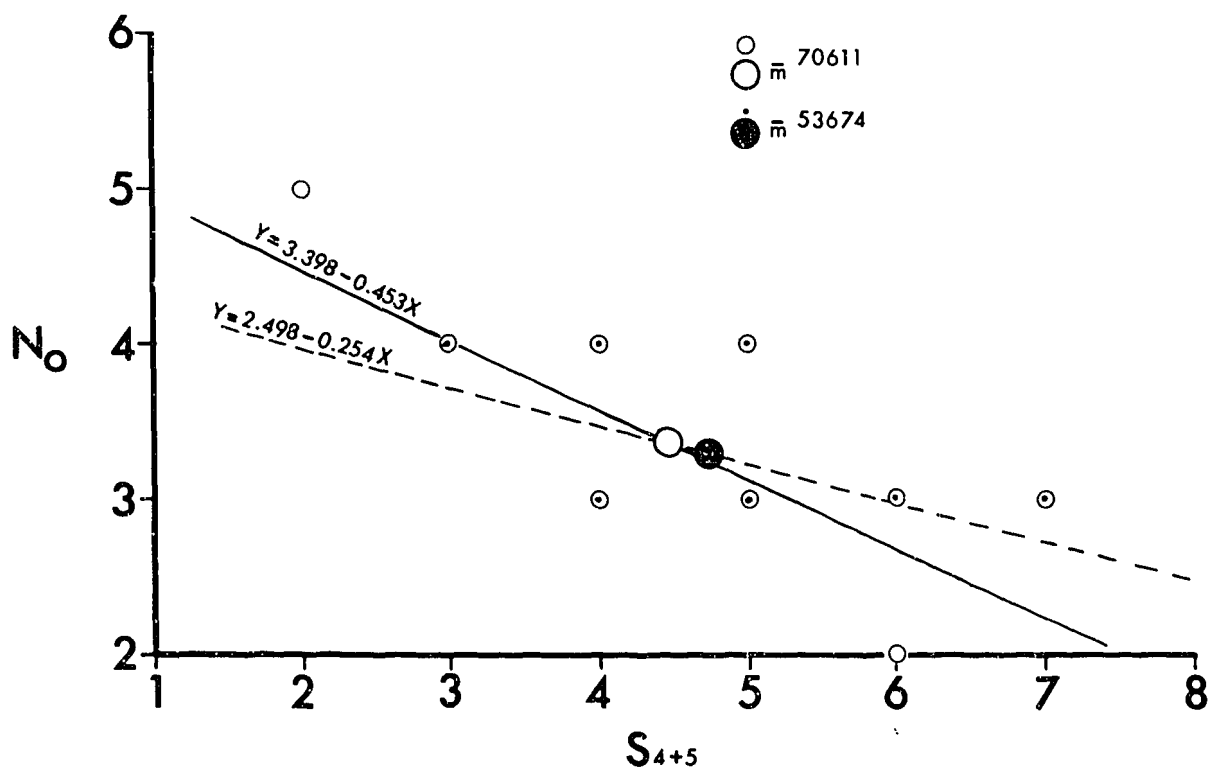


Fig. 15. Plots of parameter N_0 against parameter S_{4+5} , including the means and regression line Y on X , for populations of Heterostegina borneensis from Australia (53674) and New Zealand (70611).

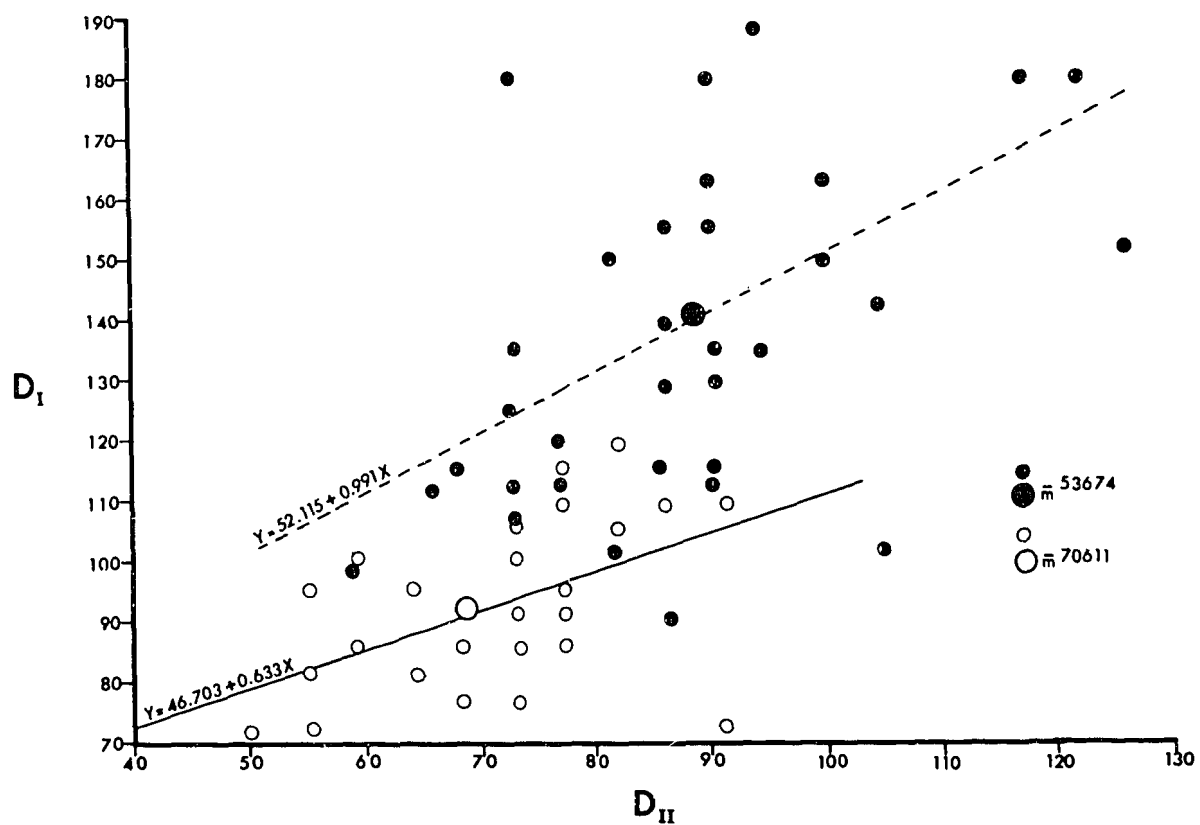


Fig. 16. Plots of parameter D_I against parameter D_{II} , including the means and regression line Y on X , for populations of *Heterostegina borneensis* from Australia (53674) and New Zealand (70611)

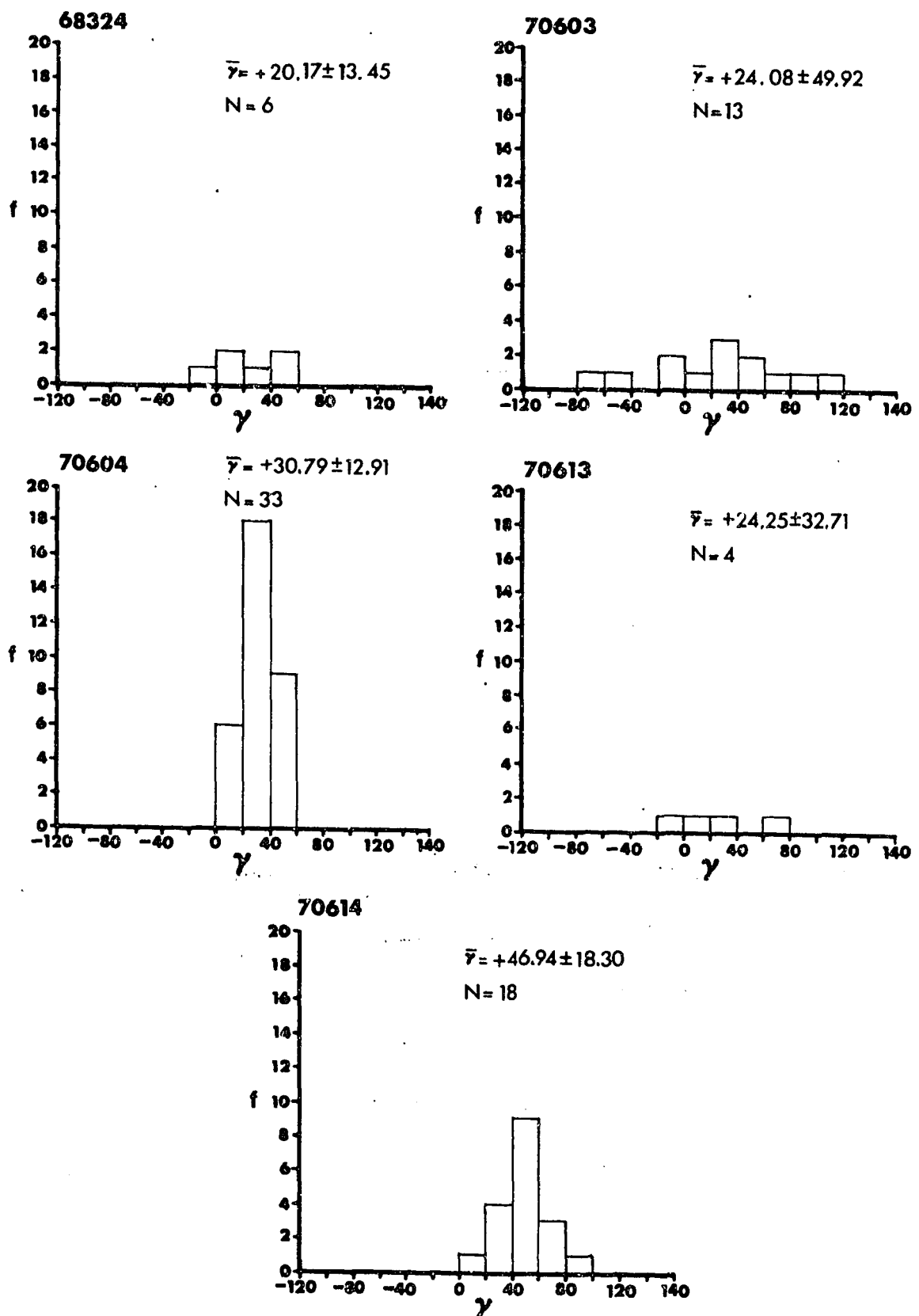


Fig. 17. Histograms for the frequency distribution of values for parameter γ in populations of Miogypsina (Lepidosemicyclina) thecidaeiformis, M. (Miogypsina) globulina and M. (M.) intermedia. Means, standard deviations and number of specimens studied are also given.

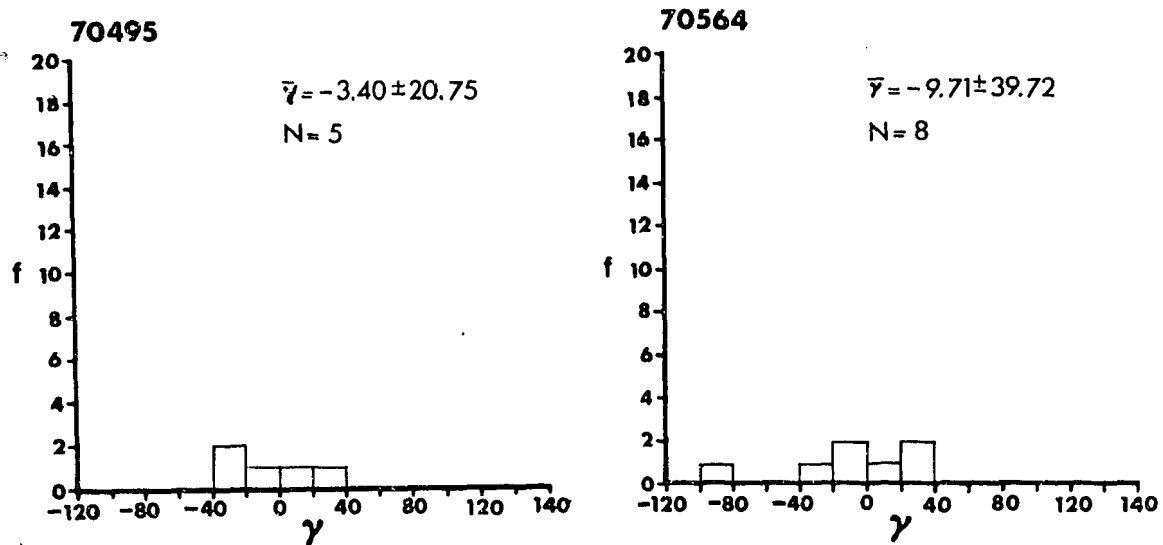


Fig. 18. Histograms for the frequency distributions of values for parameter γ in populations of Miogypsina (Miogypsinoides) dehaarti. Means, standard deviations and number of specimens studied are also given.

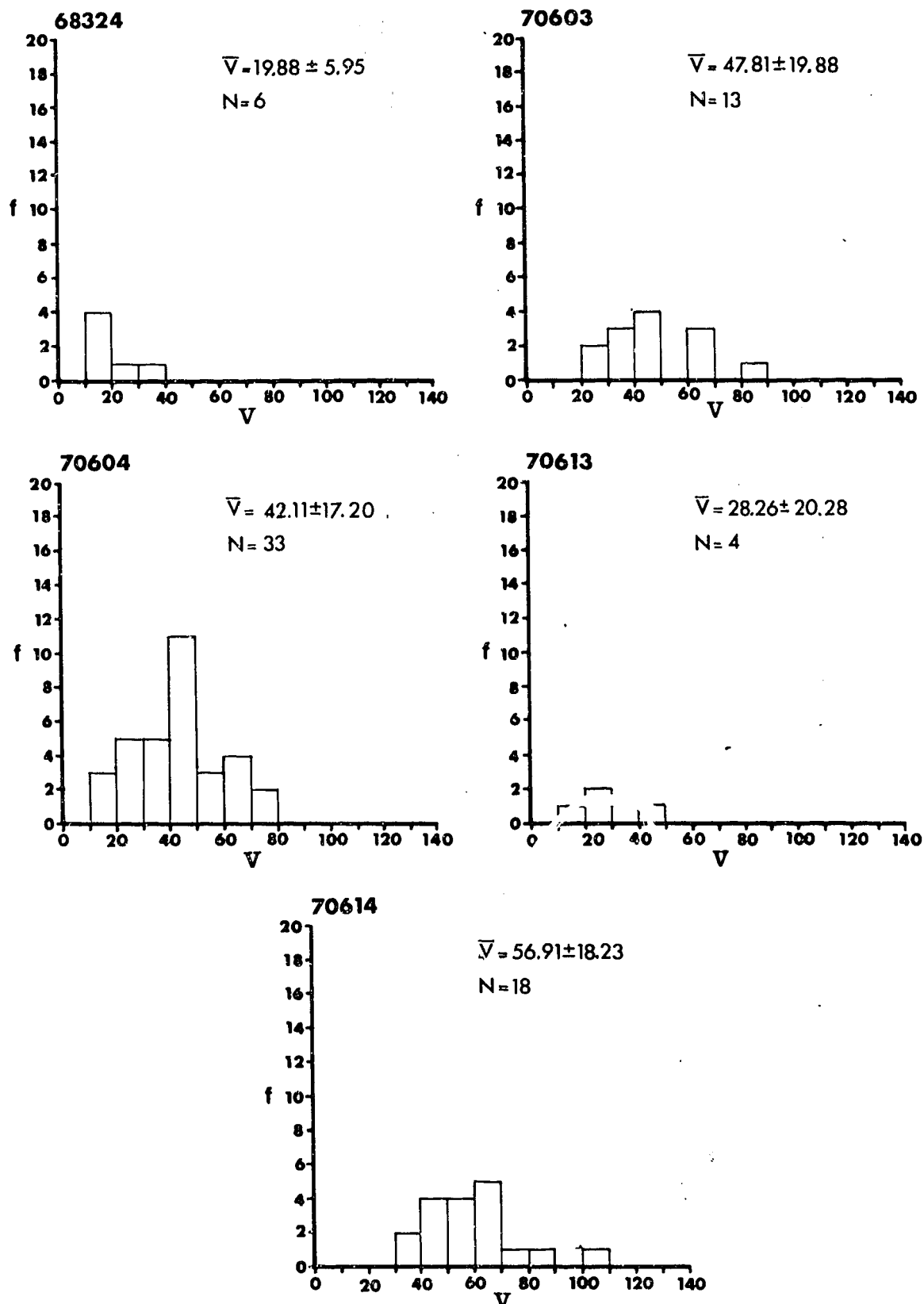


Fig. 19. Histograms for the frequency distribution of values for parameter V in populations of Miogypsina (Lepidosemicyclina) thecidaeformis, M. (Miogypsina) globulina and M. (M.) intermedia. Means, standard deviations and number of specimens studied are also given.

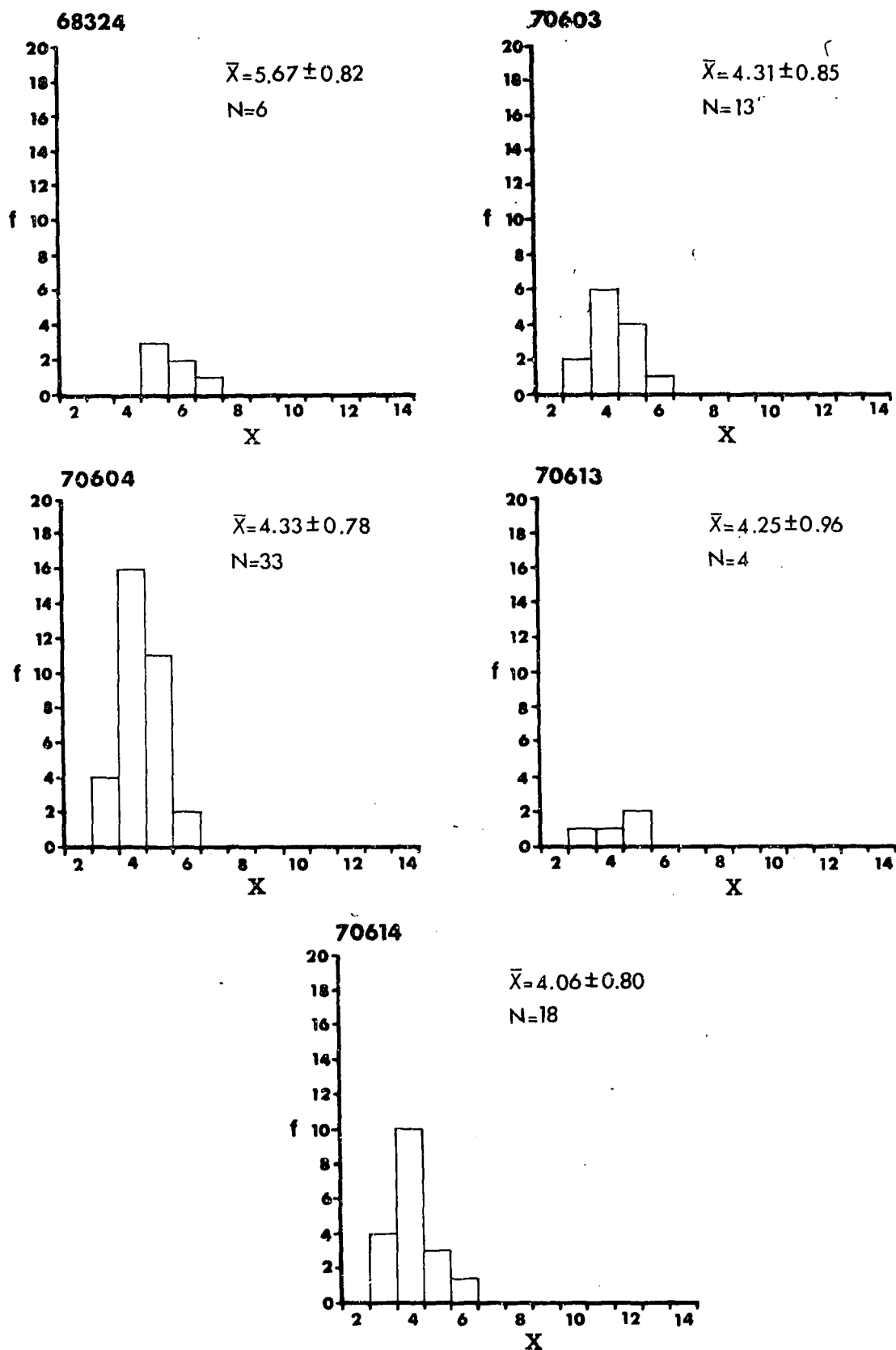


Fig. 20. Histograms for the frequency distributions of values for parameter X in populations of Miogypsina (Lepidosemicyclina) thecidaeaeformis, M. (Miogypsina) globulina and M. (M.) intermedia. Means, standard deviations and number of specimens studied are also given.

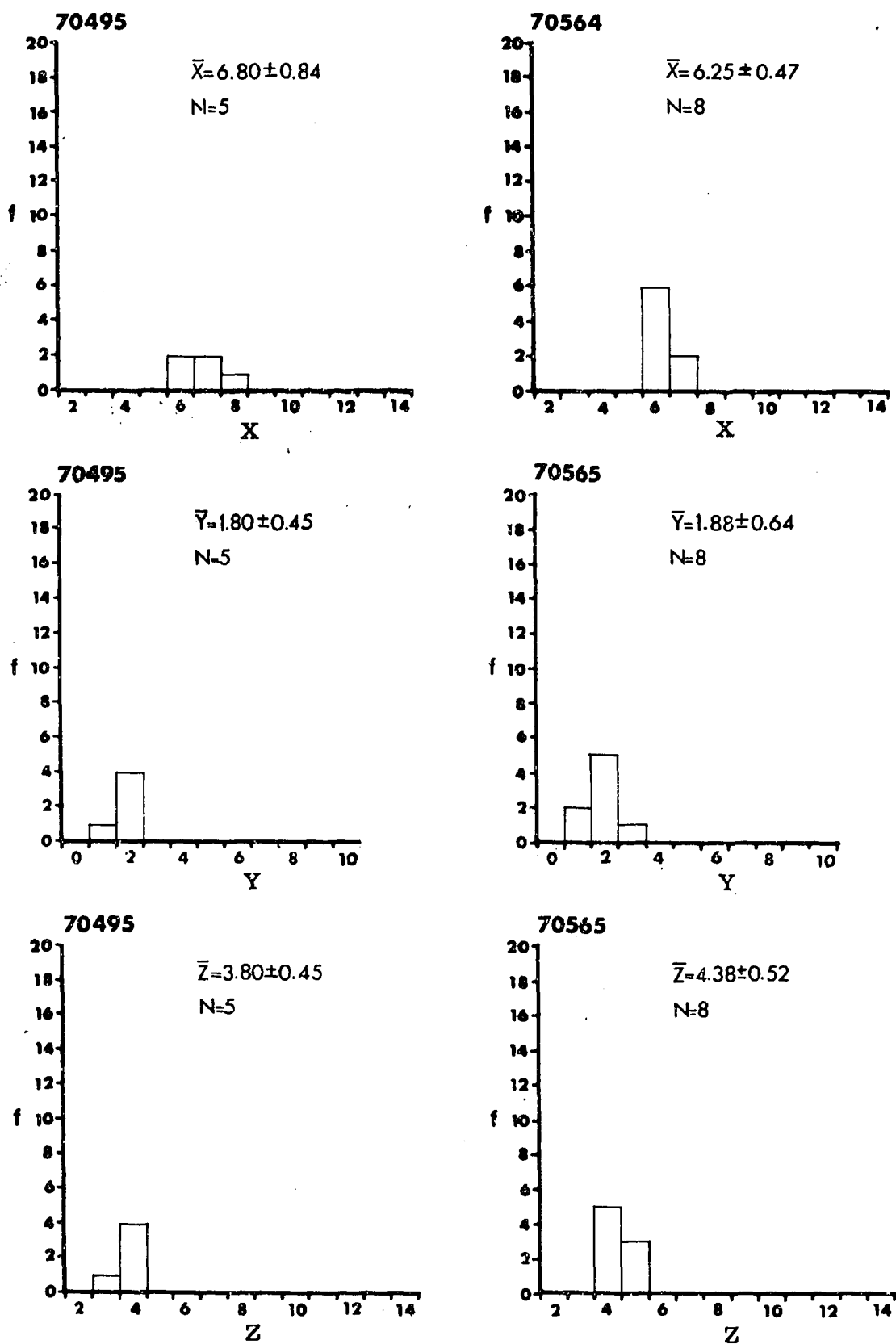


Fig. 21. Histograms for the frequency distributions of values for parameters X, Y and Z in populations of Miogypsina (Miogypsinoides) dehaarti. Means, standard deviations and number of specimens studied are also given.

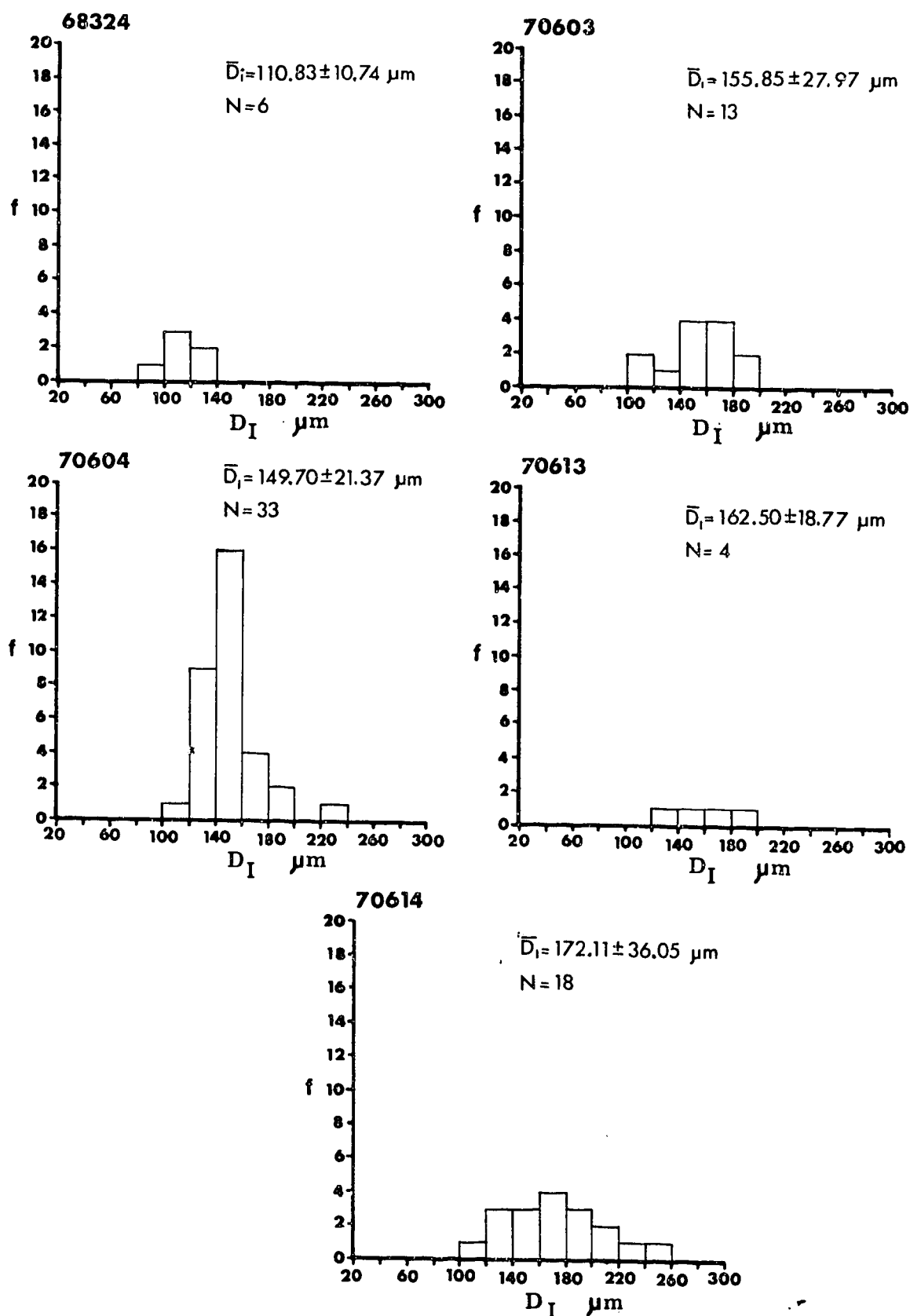


Fig. 22. Histograms for the frequency distribution of values for parameter D_I in populations of *Miogypsina* (*Lepidosemicyclina*) *thecidaeiformis*, *M. (Miogypsina) globulina* and *M. (M.) intermedia*. Means, standard deviations and number of specimens studied are also given.

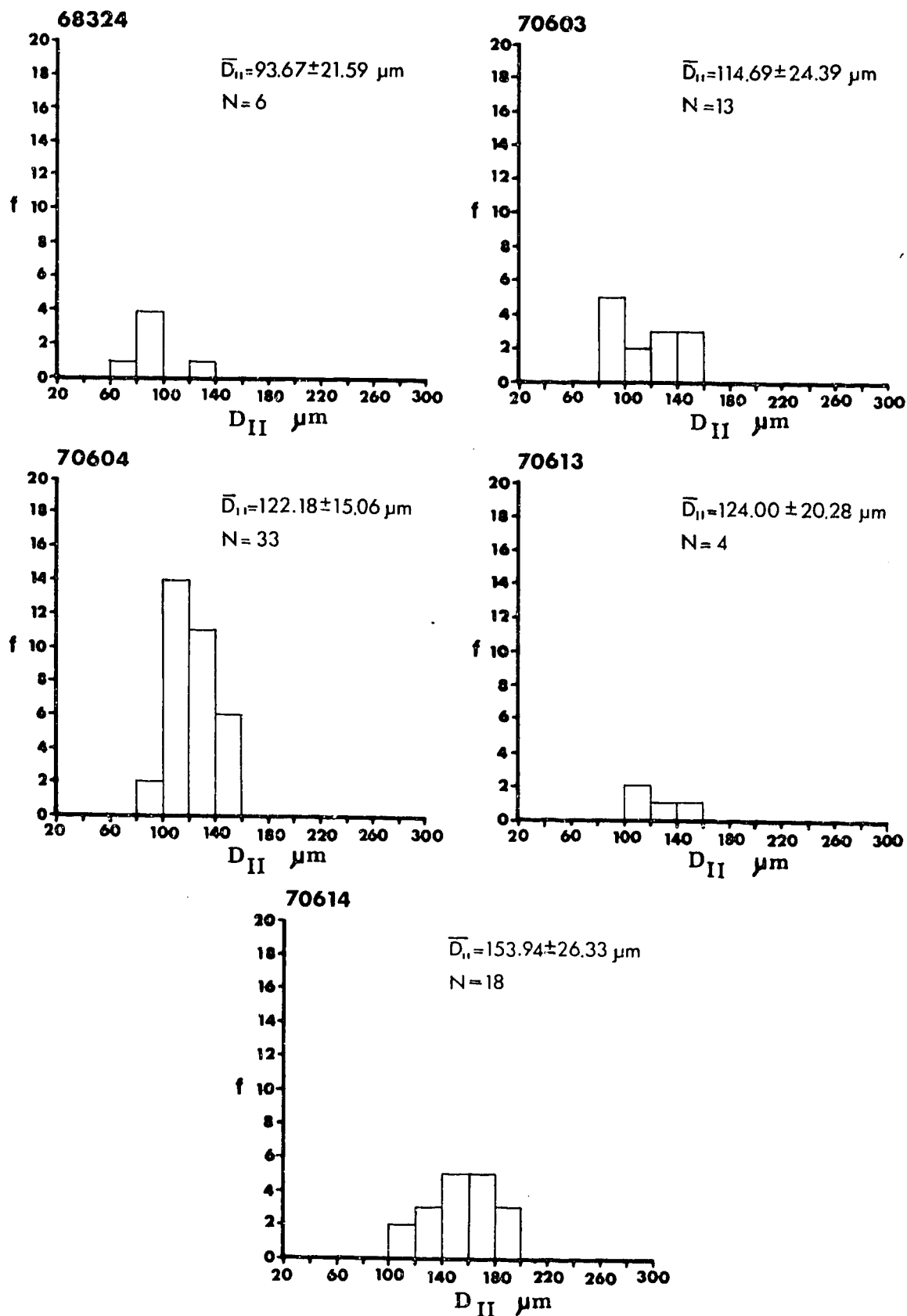


Fig. 23. Histograms for the frequency distributions of values for parameter D_{II} in populations of Miogypsina (Lepidosemicyclina) thecidaeiformis, M. (Miogypsina) globulina and M. (M.) intermedia. Means, standard deviations and number of specimens studied are also given.

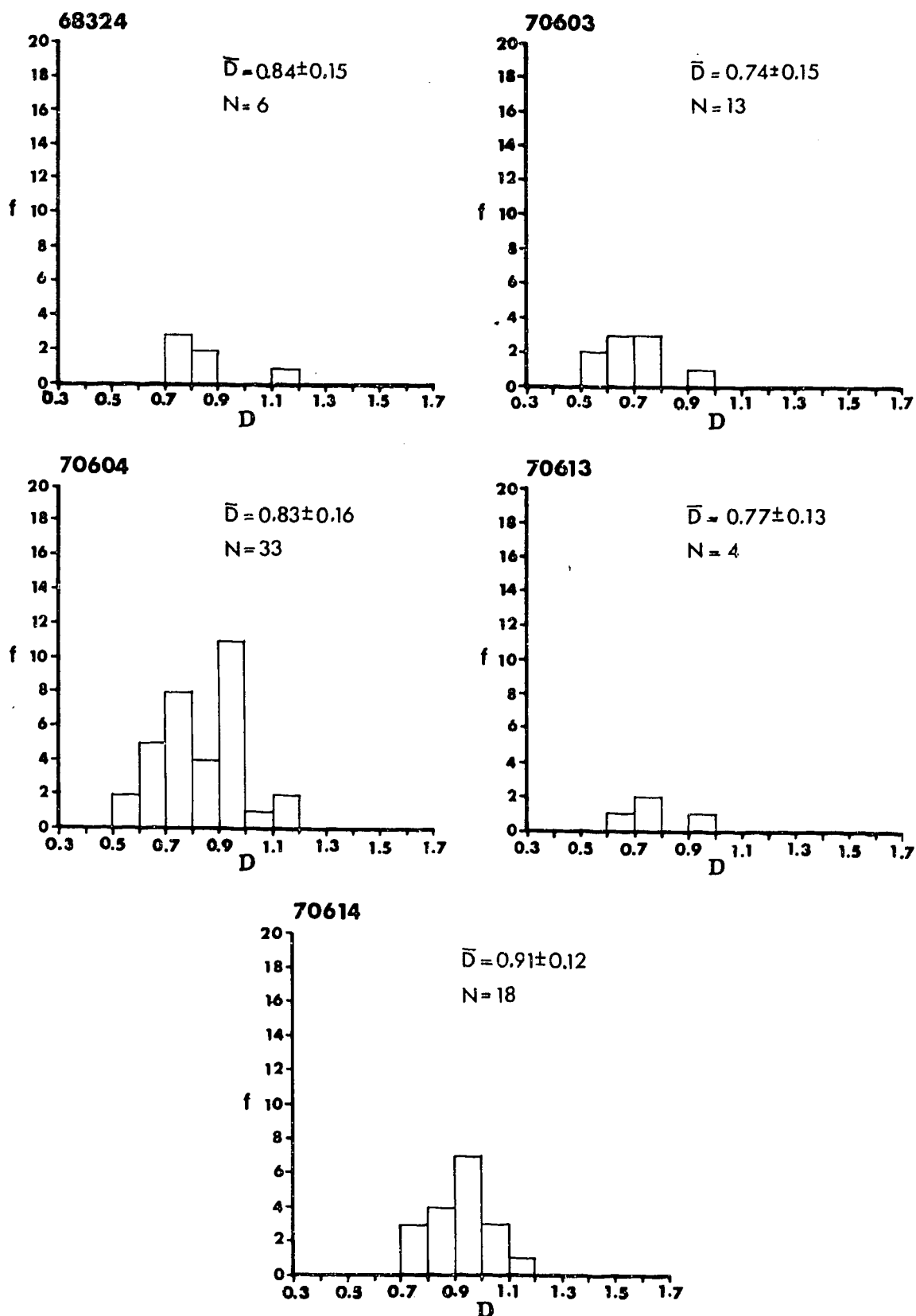


Fig. 24. Histograms for the frequency distribution of values for parameter *D* in populations of *Miogypsina* (*Lepidosemicyclina*) *thecidaeformis*, *M. (Miogypsina) globulina* and *M. (M.) intermedia*. Means, standard deviations and number of specimens studied are also given.

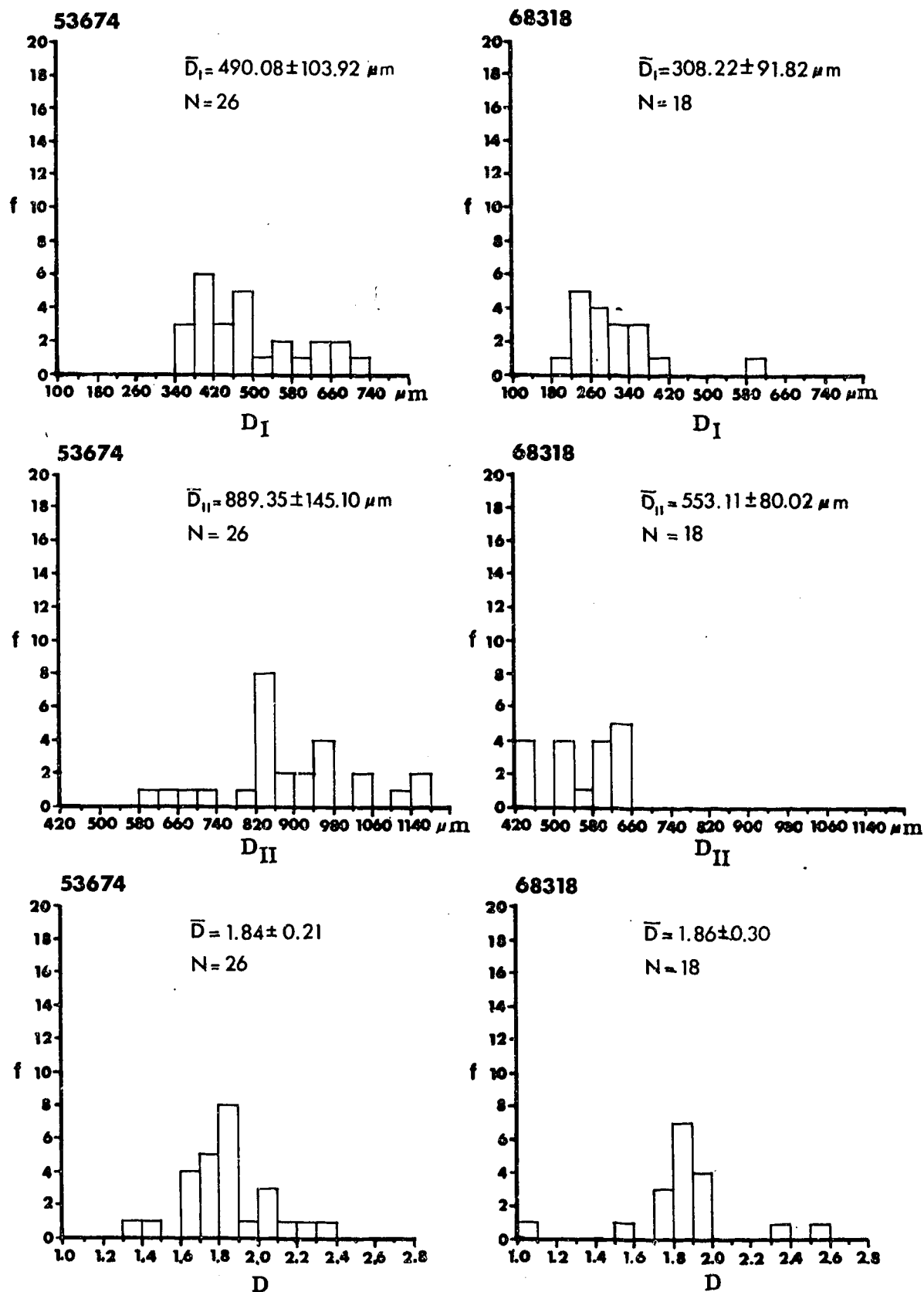


Fig. 25. Histograms for the frequency distributions of values for parameters D_I , D_{II} , and D in populations of Miogypsina (Miogypsinoidea) dehaarti. Means, standard deviations and number of specimens studied are also given.

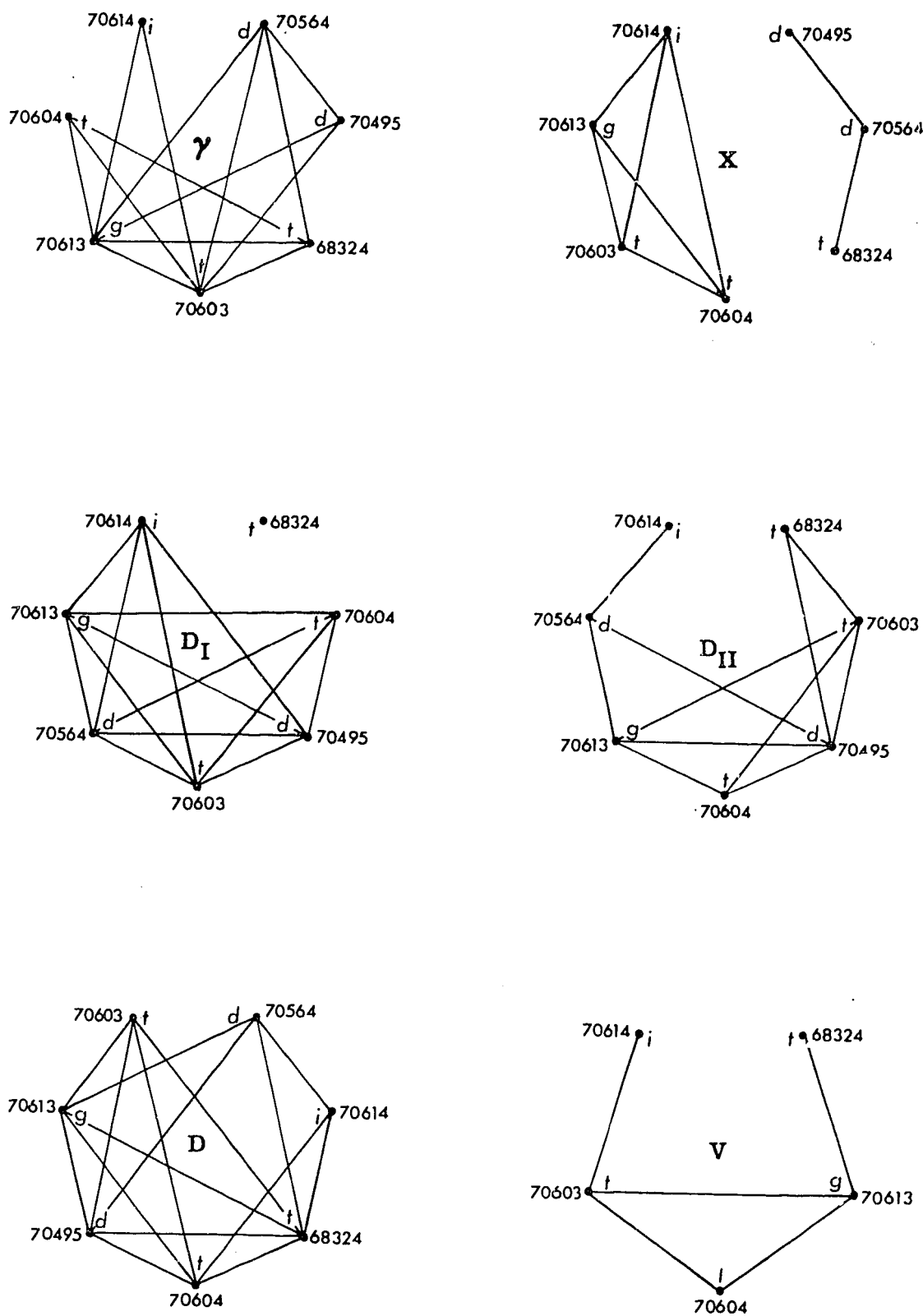


Fig. 26. Results of t-test for populations of *Miogypsina* from Australia and New Zealand. Lines between populations indicates that differences between groups are non-significant at the 95% level of confidence. The specific names to which the various populations are referred are indicated by:
 g - *M. (Miogypsina) globulina*, i - *M. (M.) intermedia*,
 t - *M. (Lepidosemicyclina) thecidaeformis*, d - *M. (Miogypsinoidea) dehaarti*.

Y	70495 70564	Z	70495 70564
70495	. o	70495	. o
70564	. ,	70564	. ,

Fig. 27. Results of t-test for populations of Miogypsina (Miogypsinoides) dehaarti from Australia. o indicates that the difference between the populations are non-significant at the 95% level of confidence.

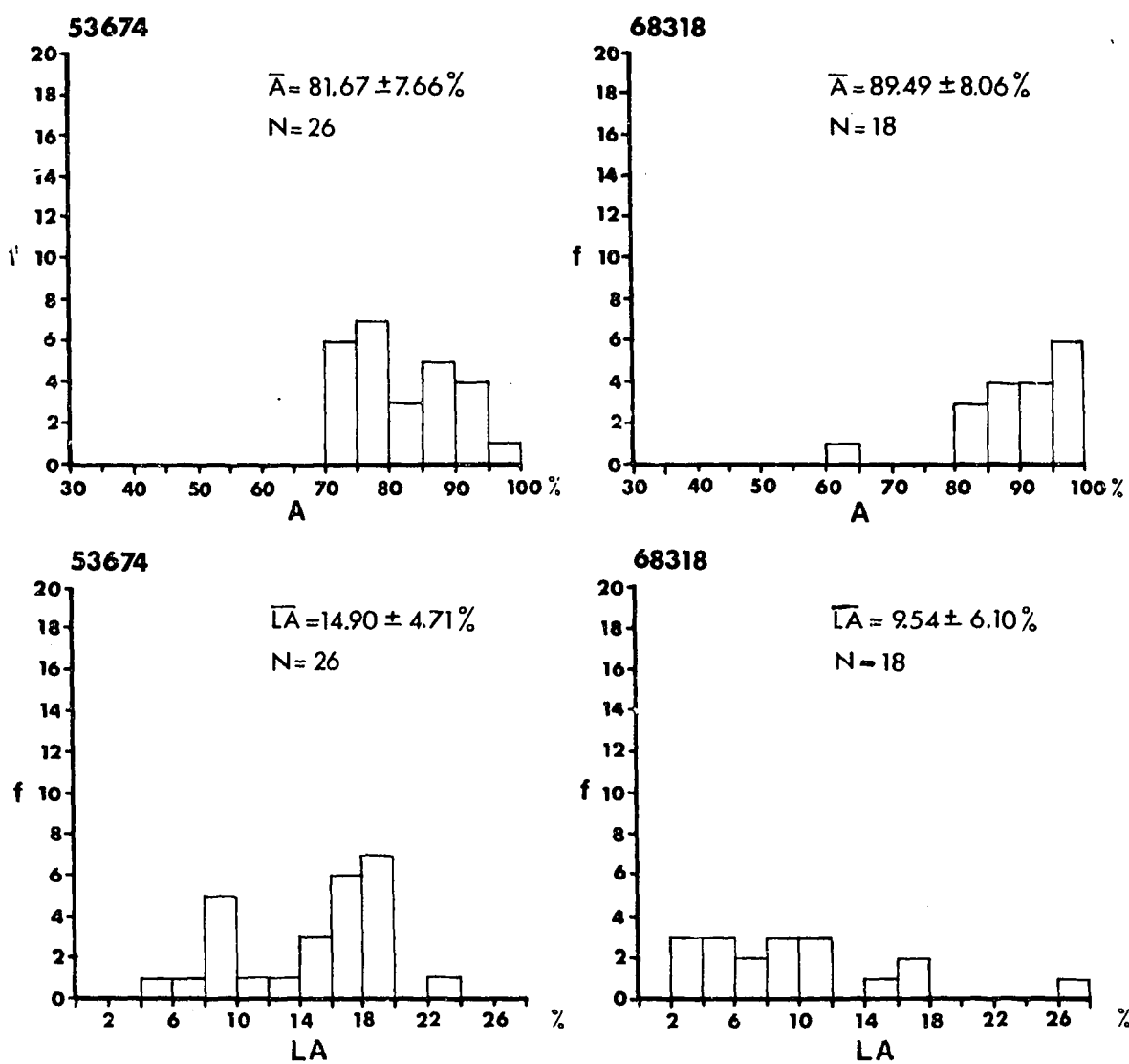


Fig. 28. Histograms for the frequency distributions of values for parameters A and LA in populations of Lepidocyclina (Eulepidina). Means, standard deviations and number of specimens studied are also given.

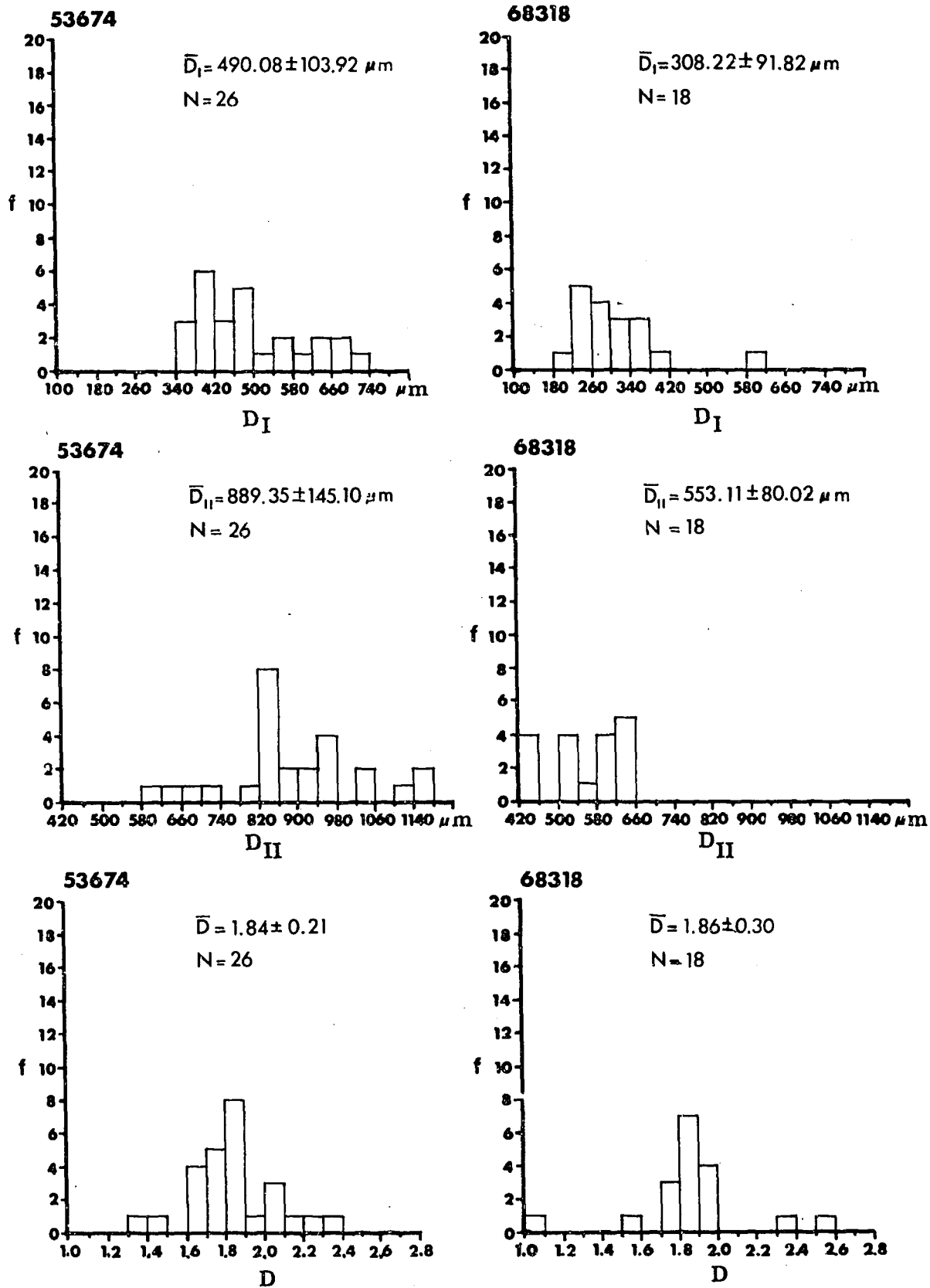


Fig. 29. Histograms for the frequency distributions of values for parameters D_I , D_{II} and D in populations of Lepidocyclina (Eulepidina). Means, standard deviations and number of specimens studied are also given.

A	53674 68318	LA	53674 68318	D	53674 68318	D _I	53674 68318	D _{II}	53674 68318
53674	. X	53674	. X	53674	, o	53674	, X	53674	, X
68318	. .	68318	. .	68318	. .	68318	. .	68318	. .

Fig. 30. Results of t-test for populations of Lepidocyclina (Eulepidina) ephippioides and L. (E.) badjirraensis from Australia. o indicates that the differences between the two populations are non-significant at the 95% level of confidence; X indicates that differences are significant.

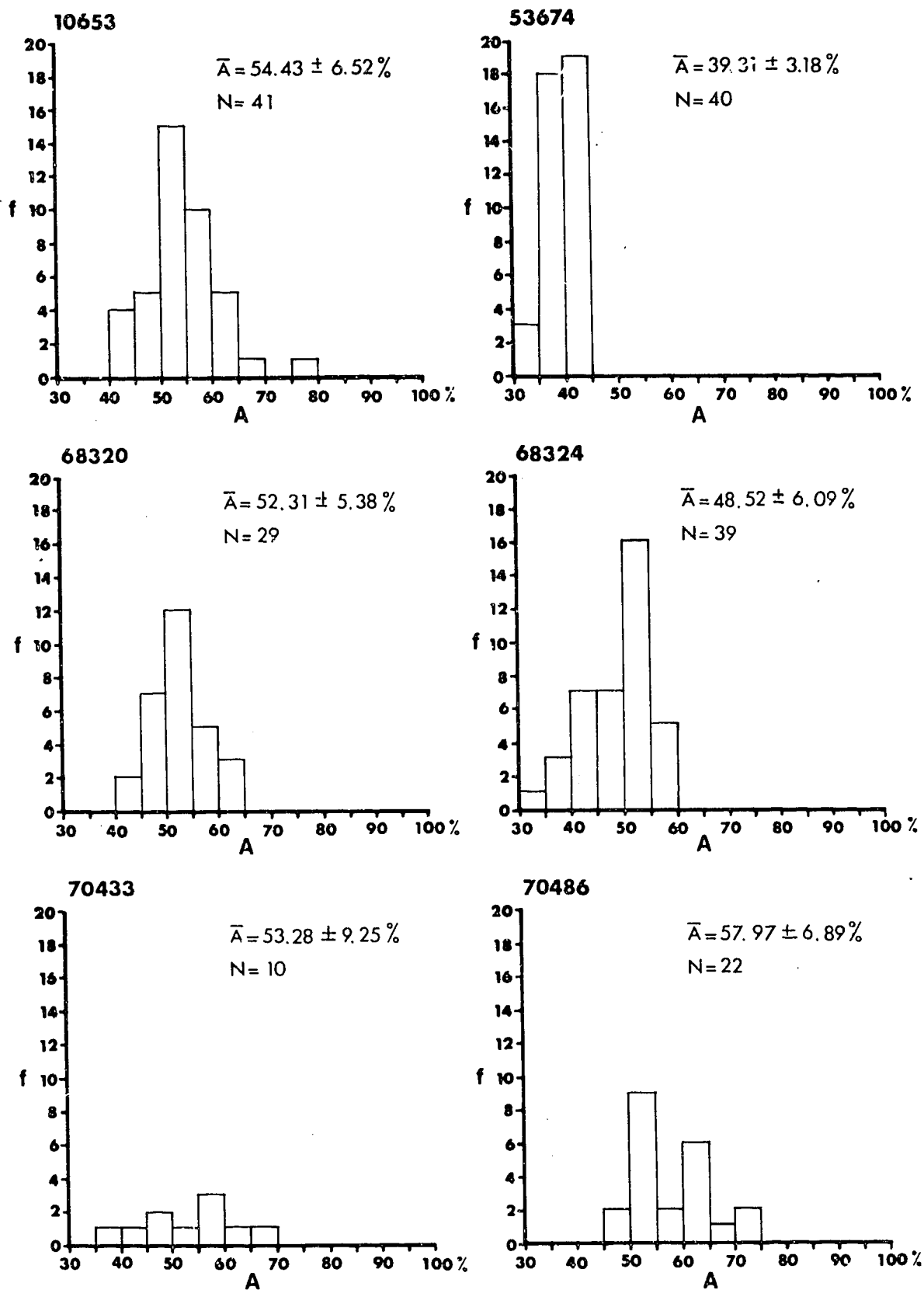


Fig. 31. Histograms for the frequency distribution of values for parameter A in populations of *Lepidocyclina* (*Nephrolepidina*). Means, standard deviations and number of specimens studied are also given.

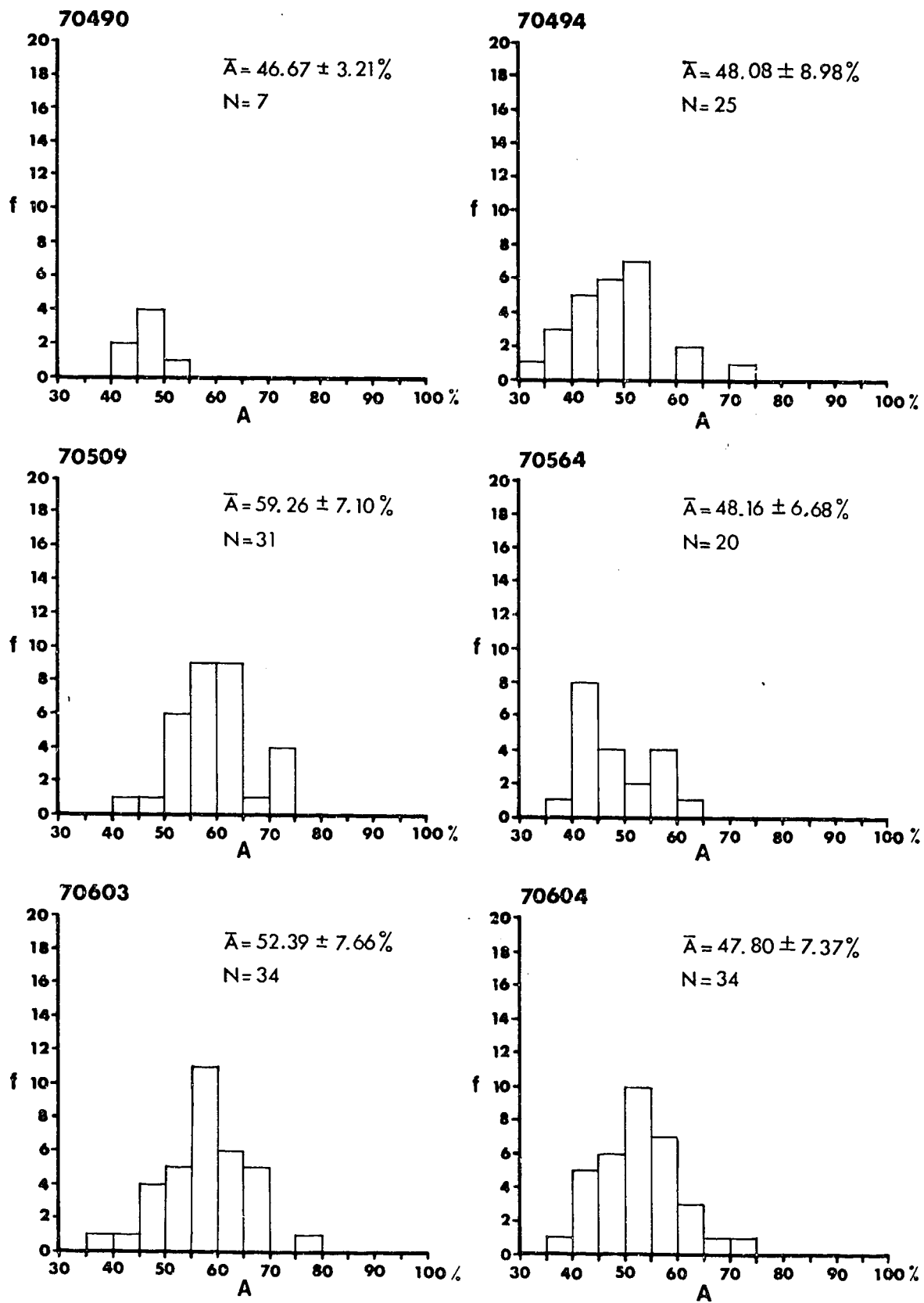


Fig. 32. Histograms for the frequency distribution of values for parameter A in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

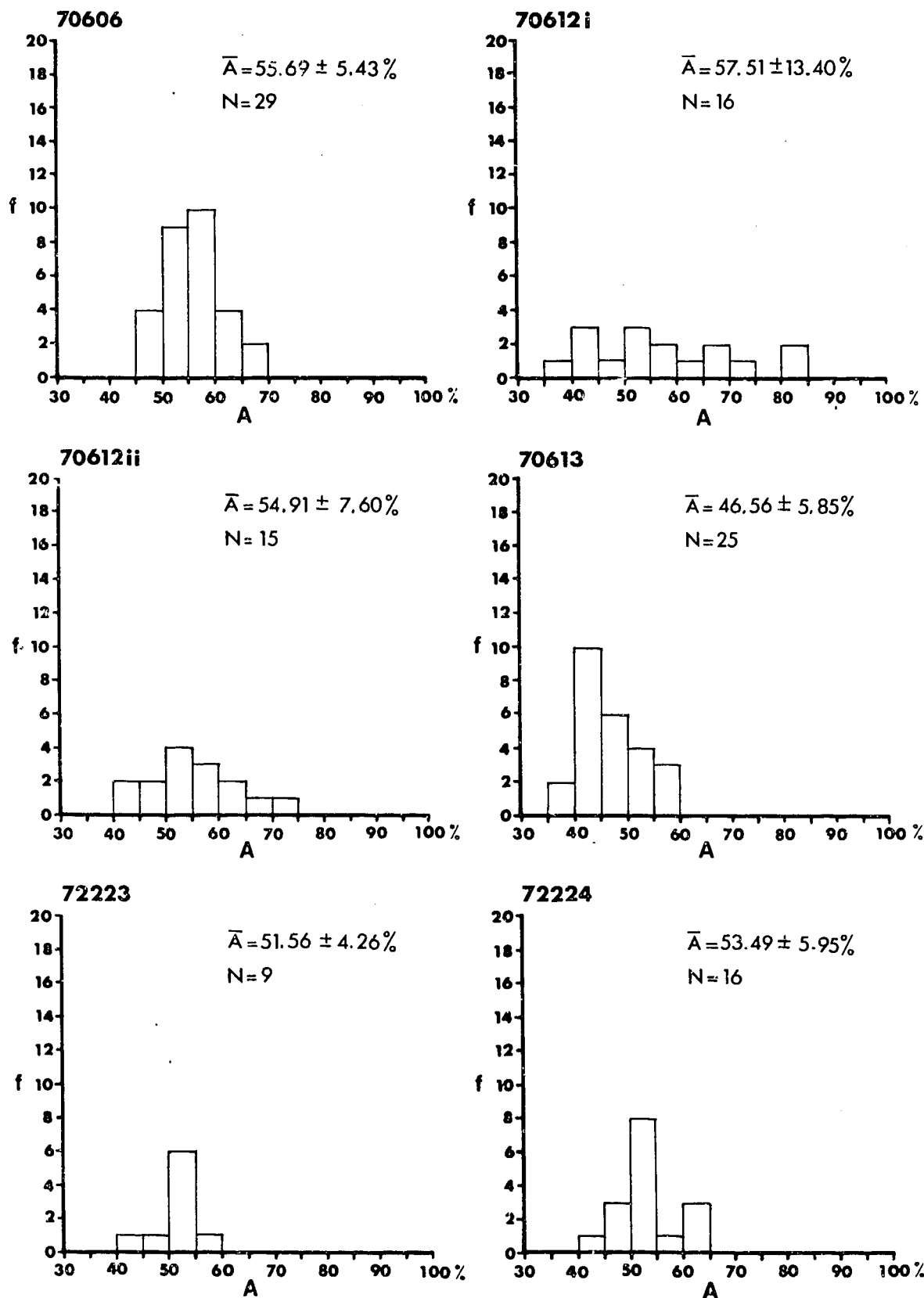


Fig. 33. Histograms for the frequency distribution of values for parameter A in populations of *Lepidocyclina* (*Neolepidina*). Means, standard deviations and number of specimens studied are also given.

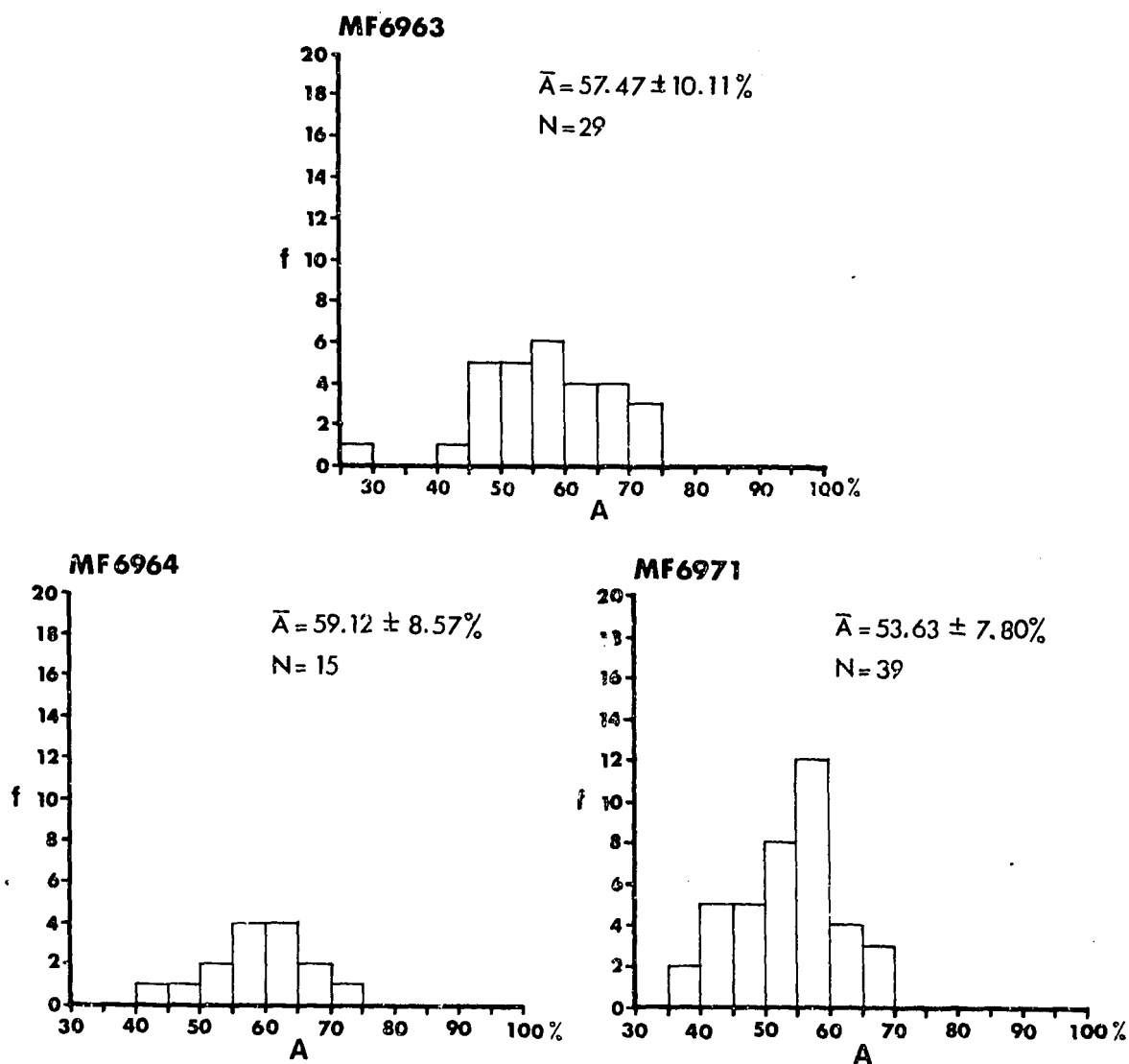


Fig. 34. Histograms for the frequency distribution of values for parameter A in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

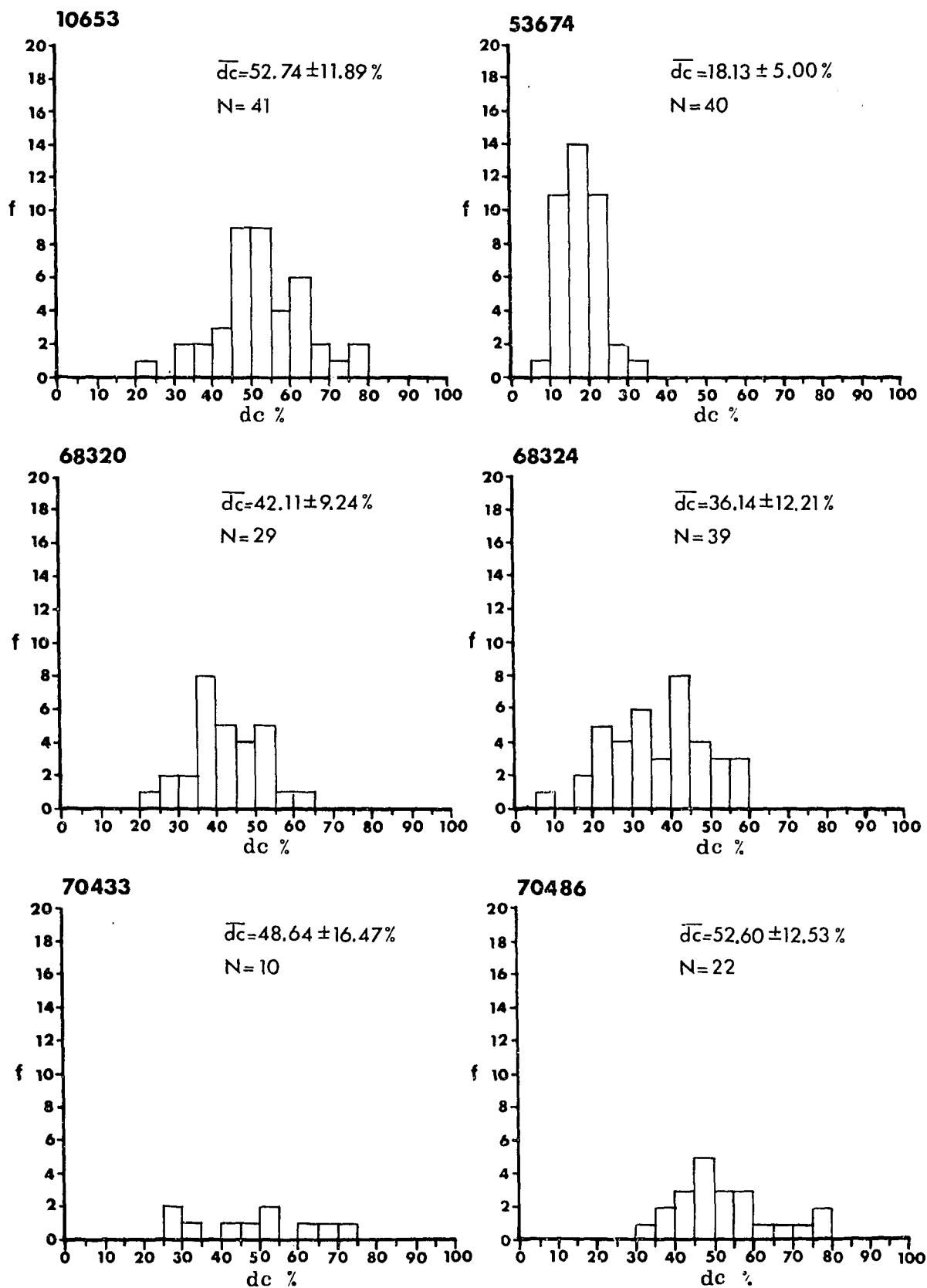


Fig. 35. Histograms for the frequency distribution of values for parameter *dc* in populations of *Lepidocyclina* (*Nephrolepidina*). Means, standard deviations and number of specimens studied are also given.

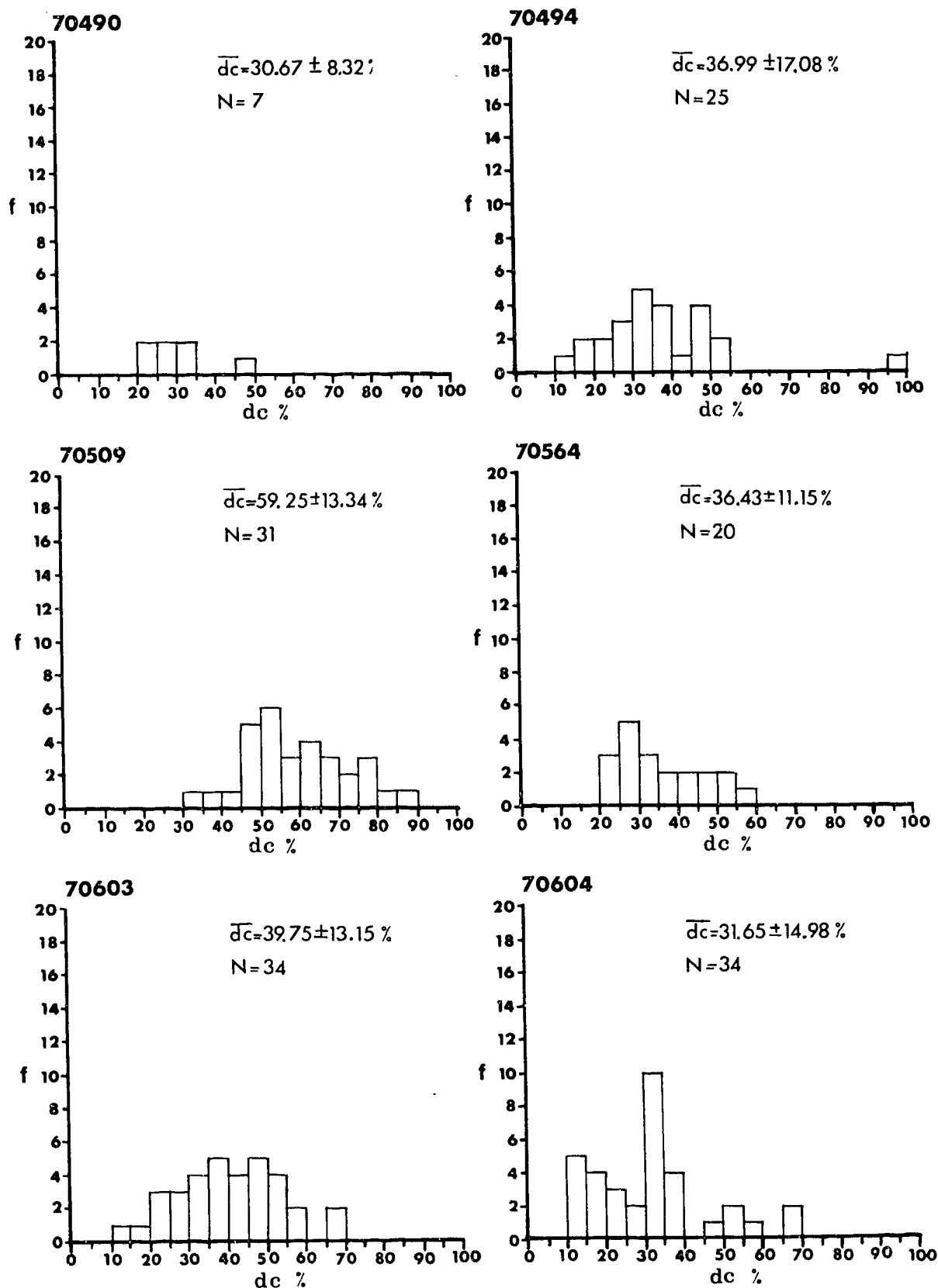


Fig. 36. Histograms for the frequency distribution of values for parameter dc in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

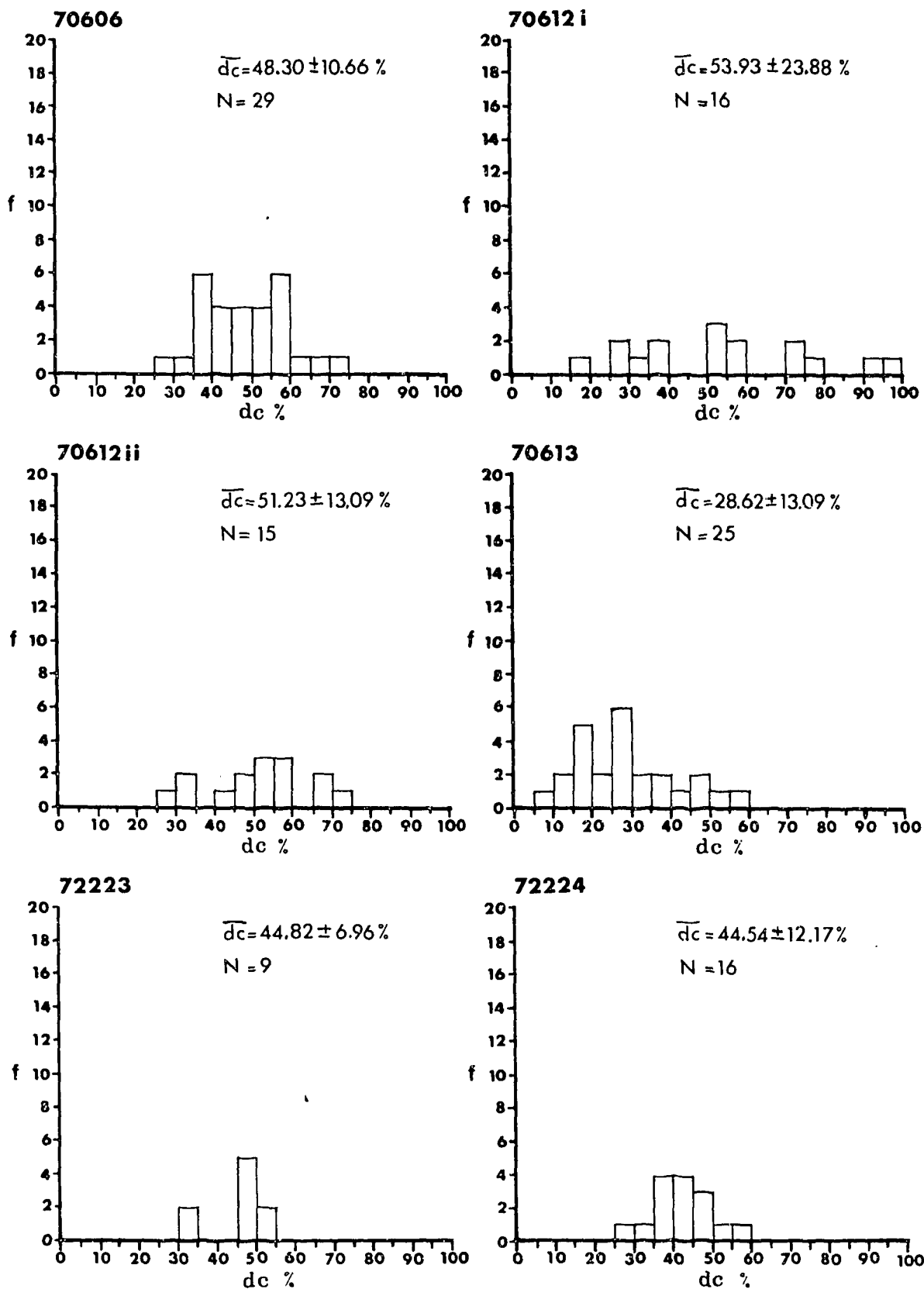


Fig. 37. Histograms for the frequency distribution of values for parameter dc in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

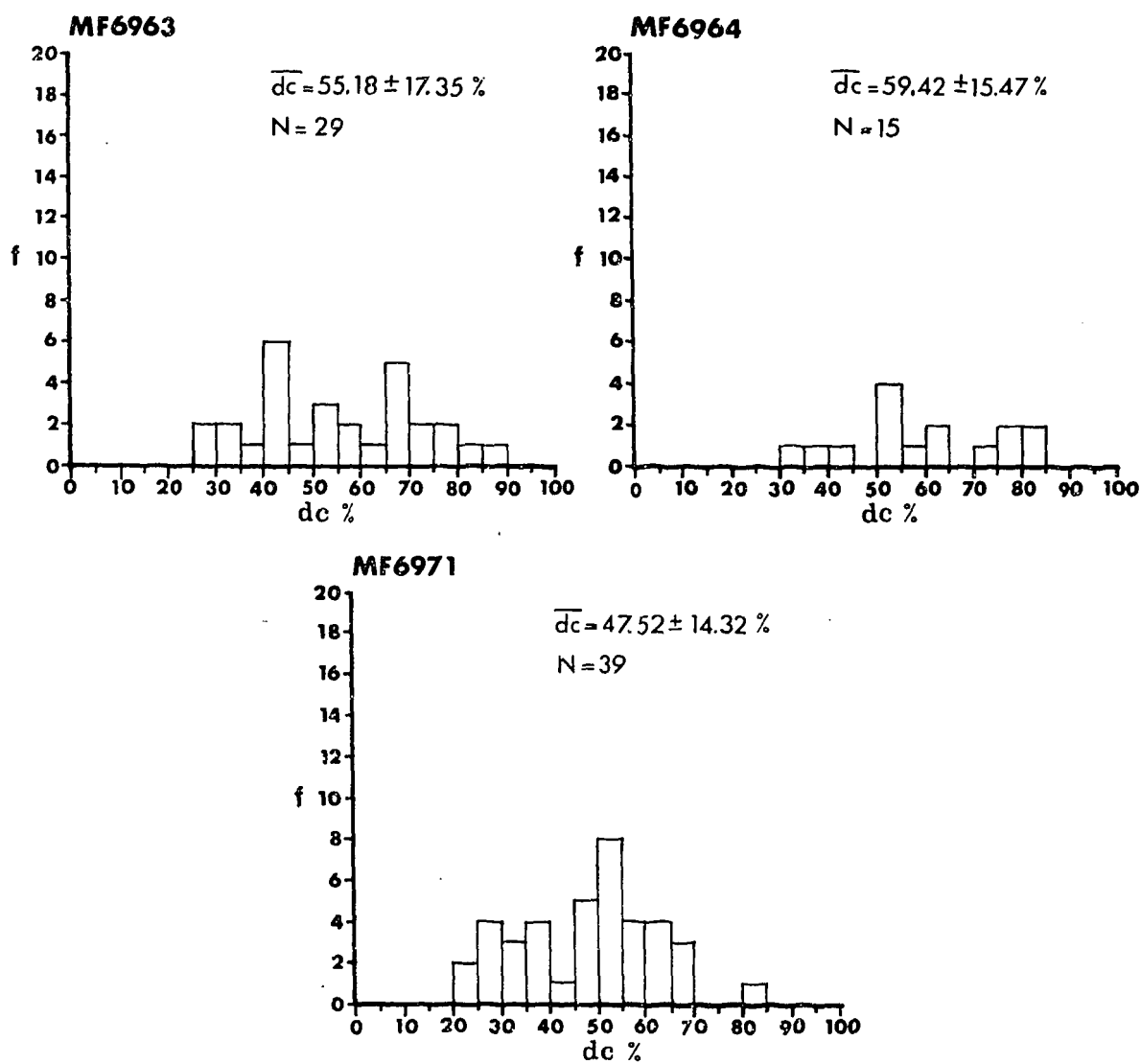


Fig. 38. Histograms for the frequency distribution of values for parameter dc in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

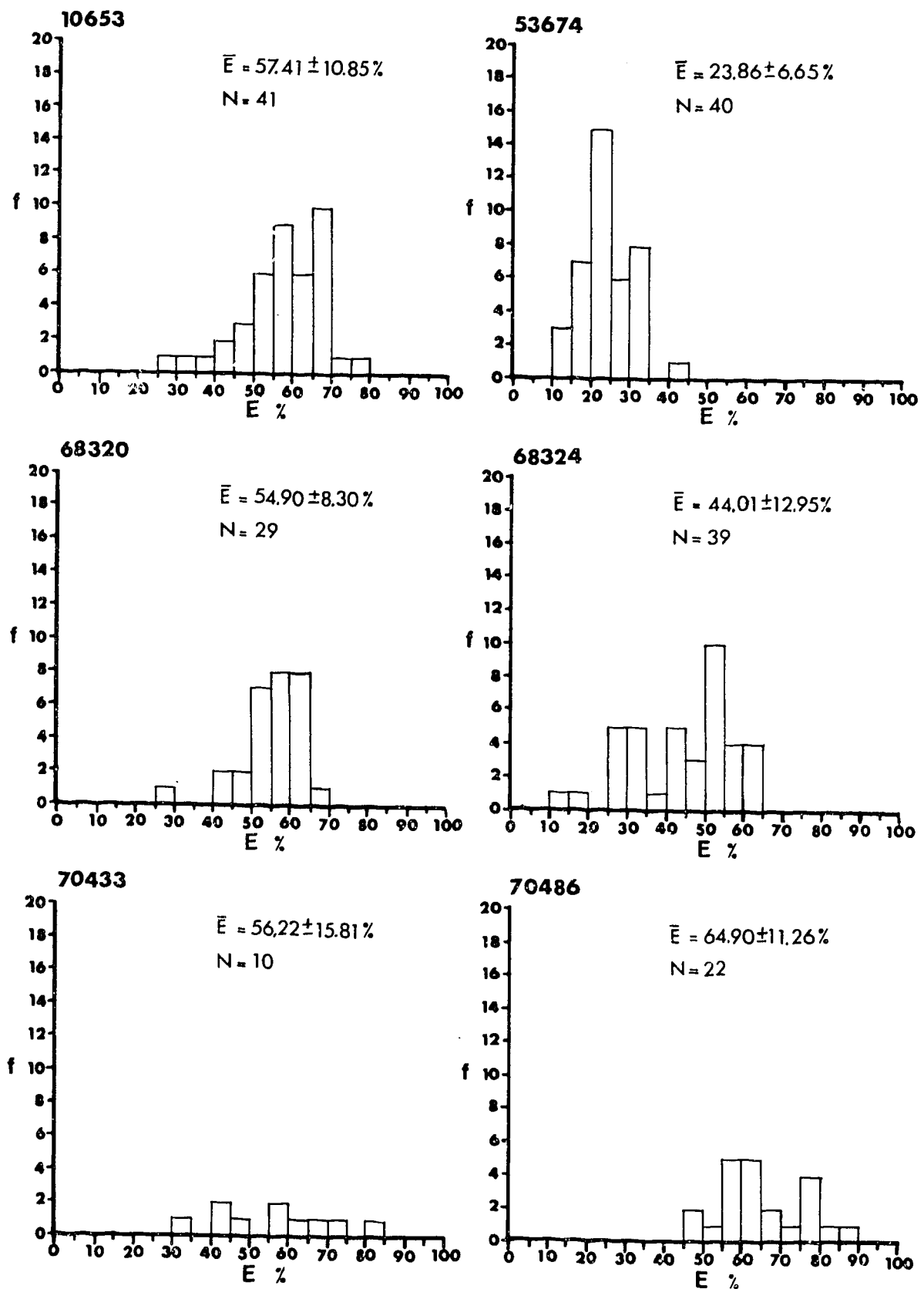


Fig. 39. Histograms for the frequency distribution of values for parameter E in populations of *Lepidocyclina* (*Nephrolepidina*). Means, standard deviations and number of specimens studied are also given.

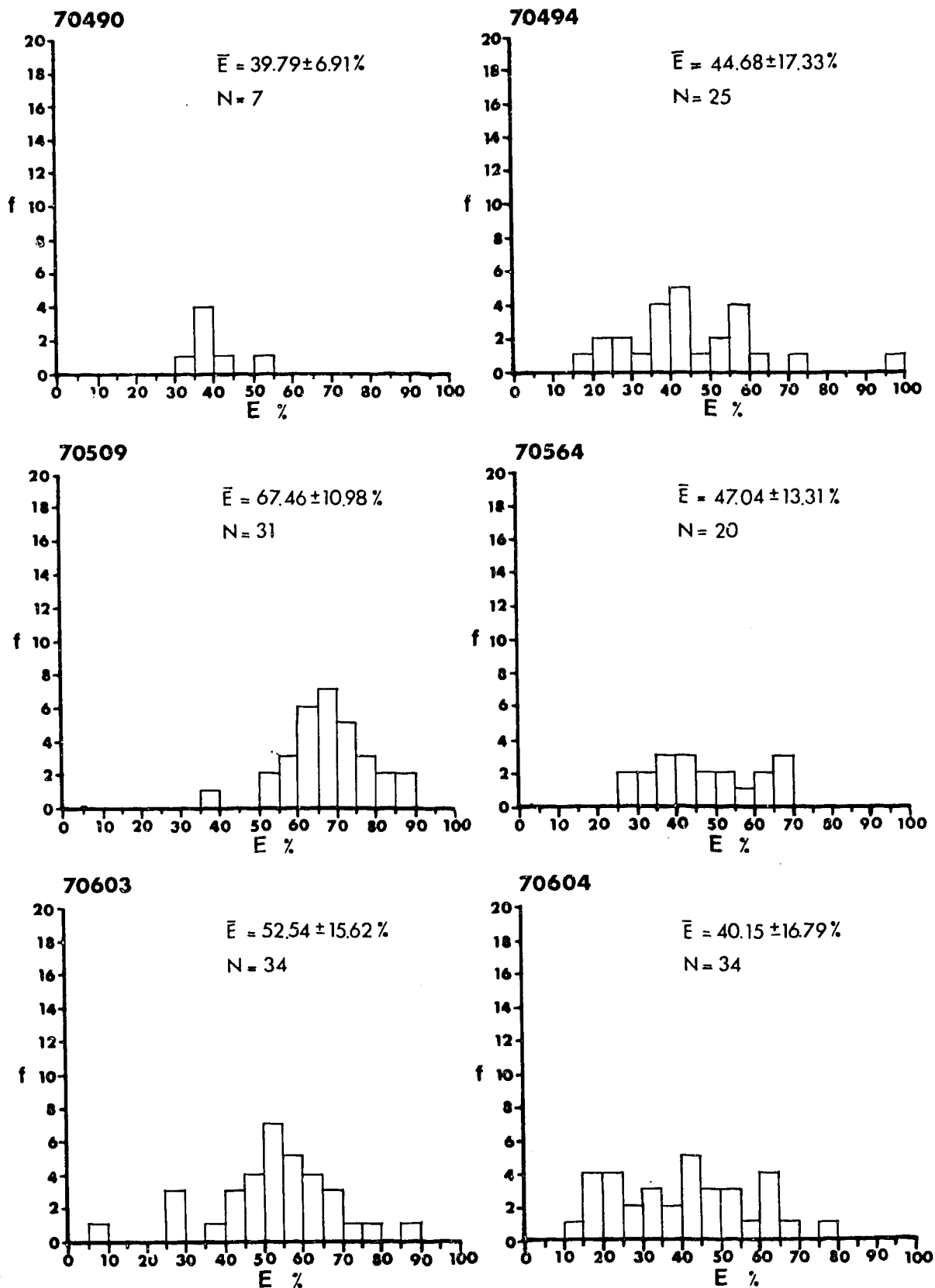


Fig. 40. Histograms for the frequency distribution of values for parameter E in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

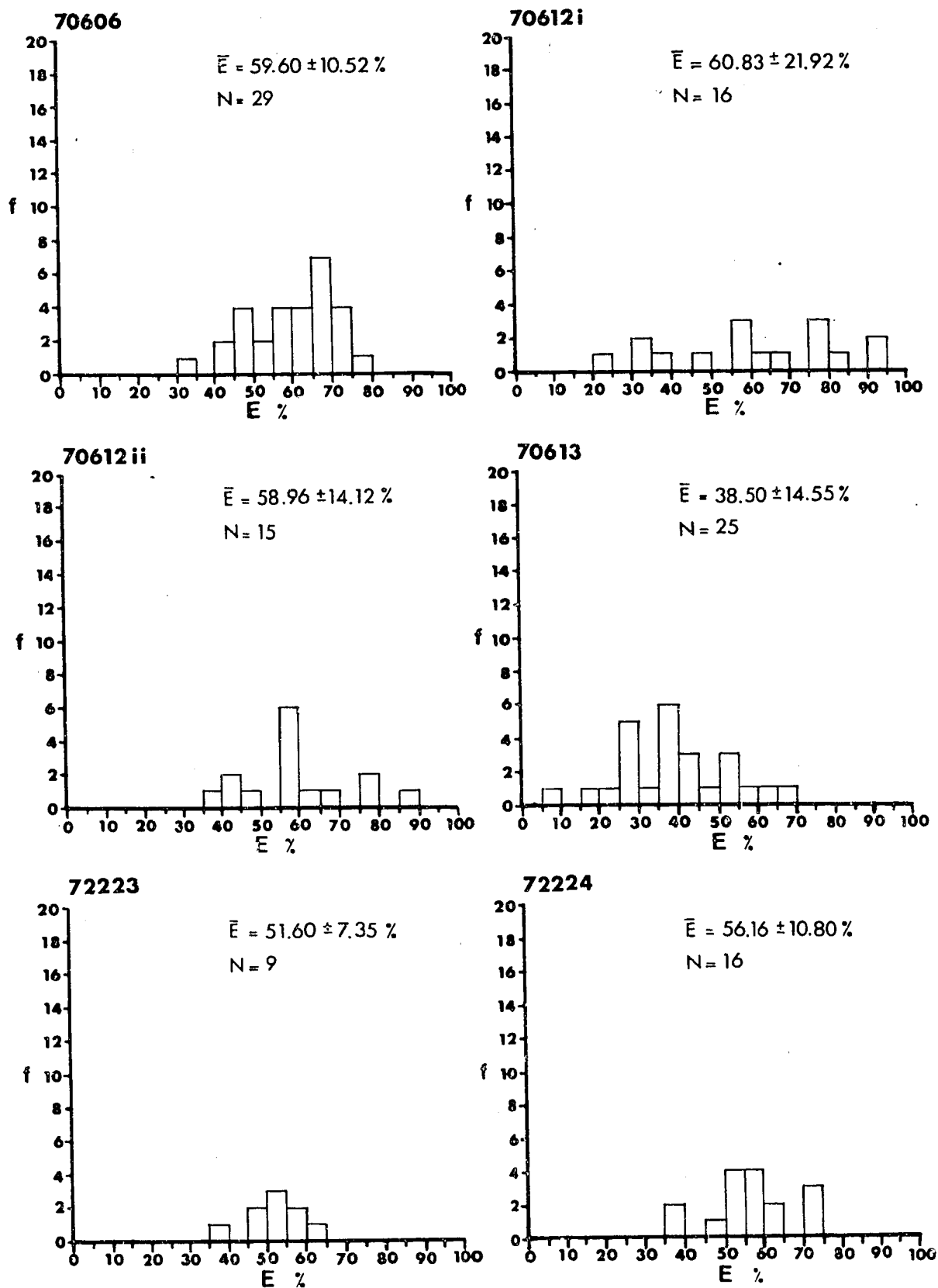


Fig. 41. Histograms for the frequency distribution of values for parameter E in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

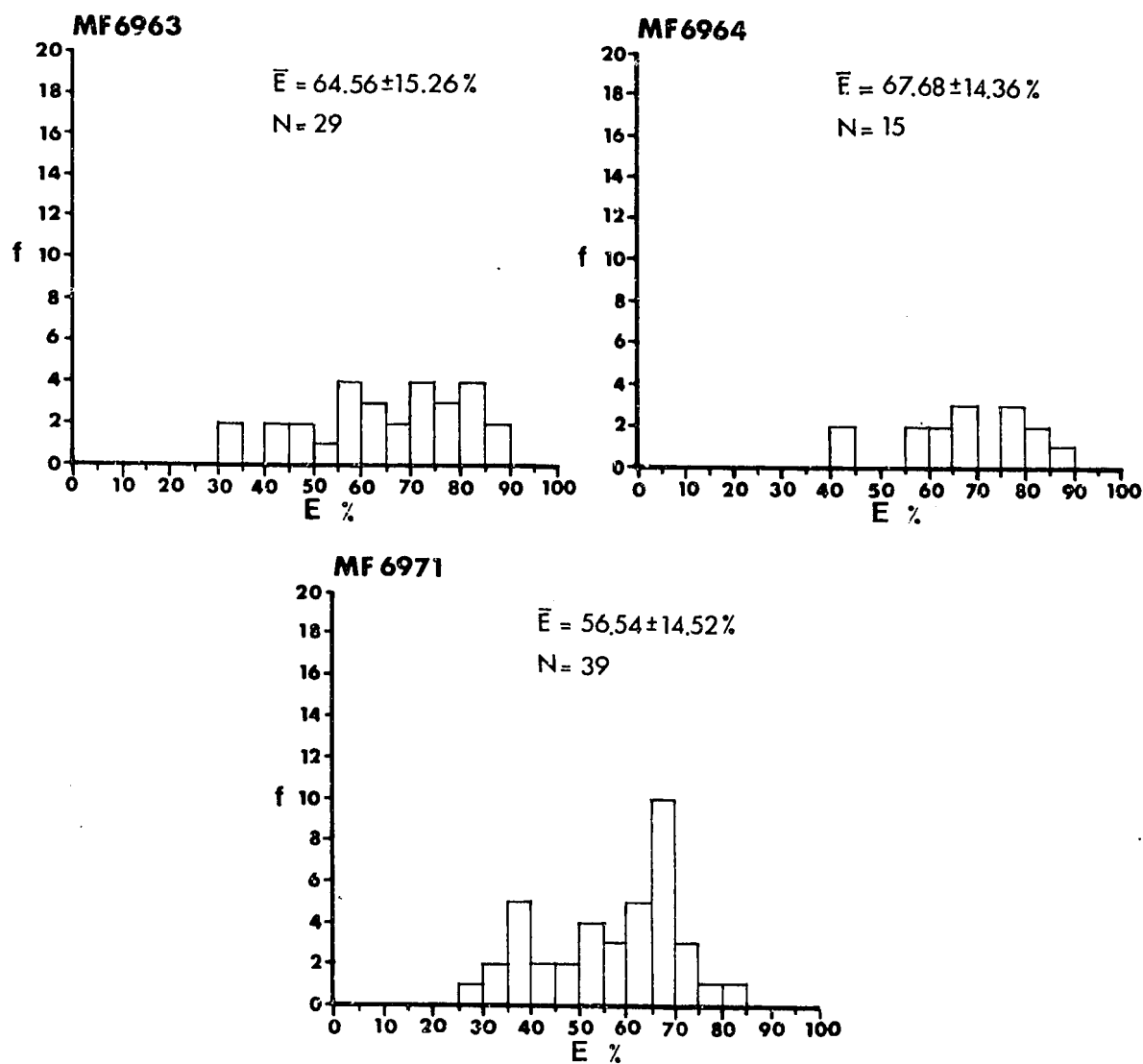


Fig. 42. Histograms for the frequency distribution of values for parameter E in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

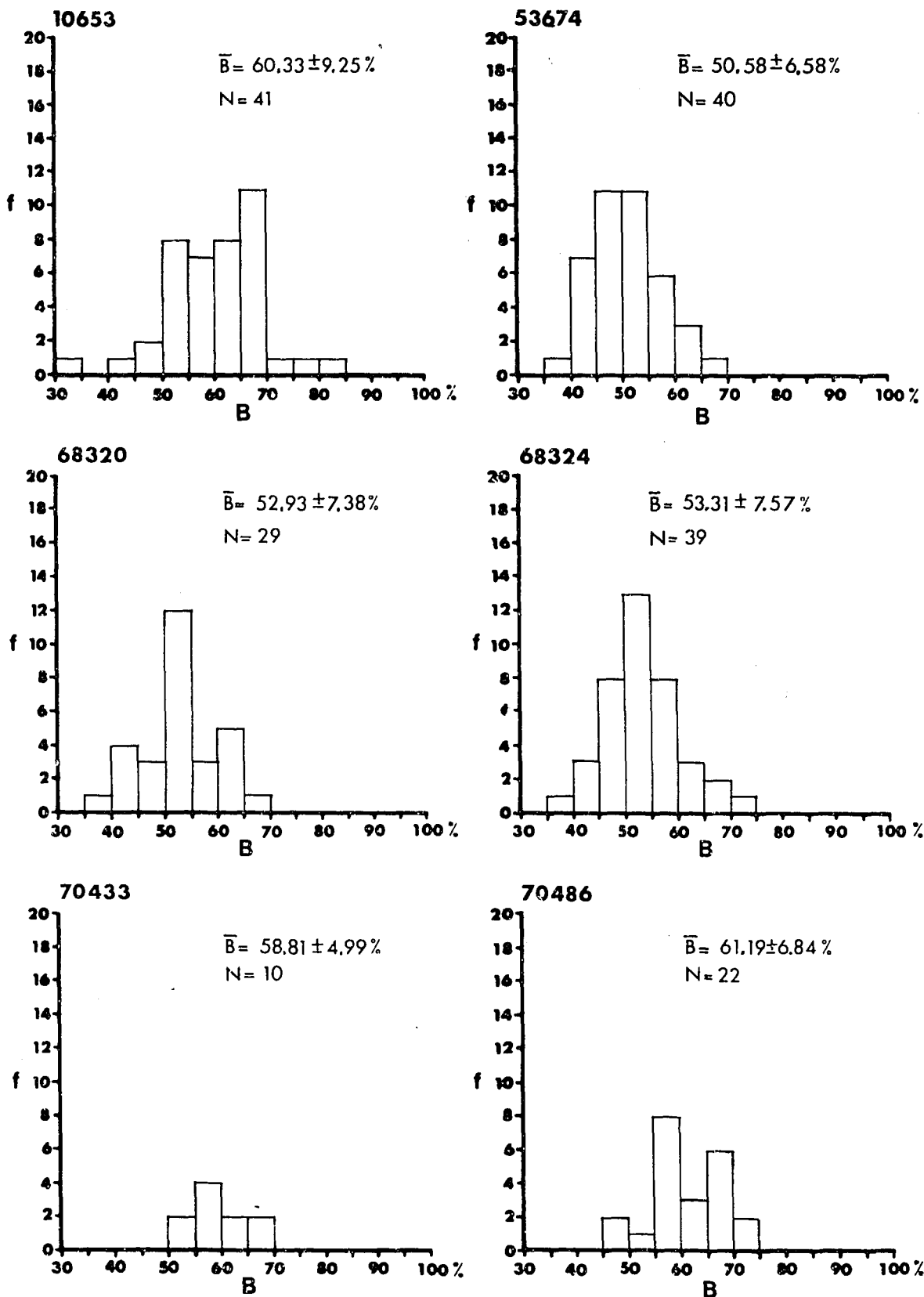


Fig. 43. Histograms for the frequency distribution of values for parameter B in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

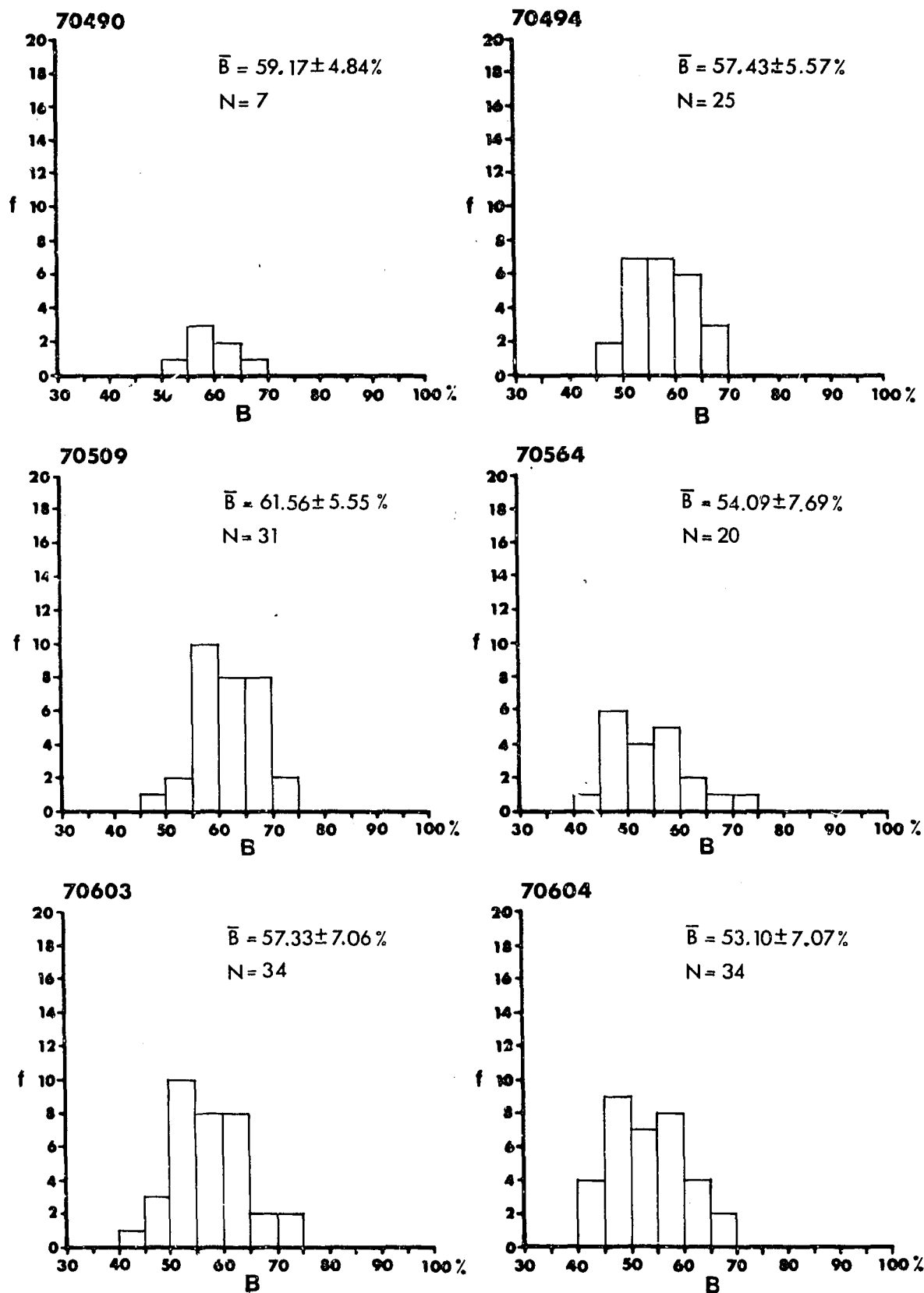


Fig. 44. Histograms for the frequency distribution of values for parameter B in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

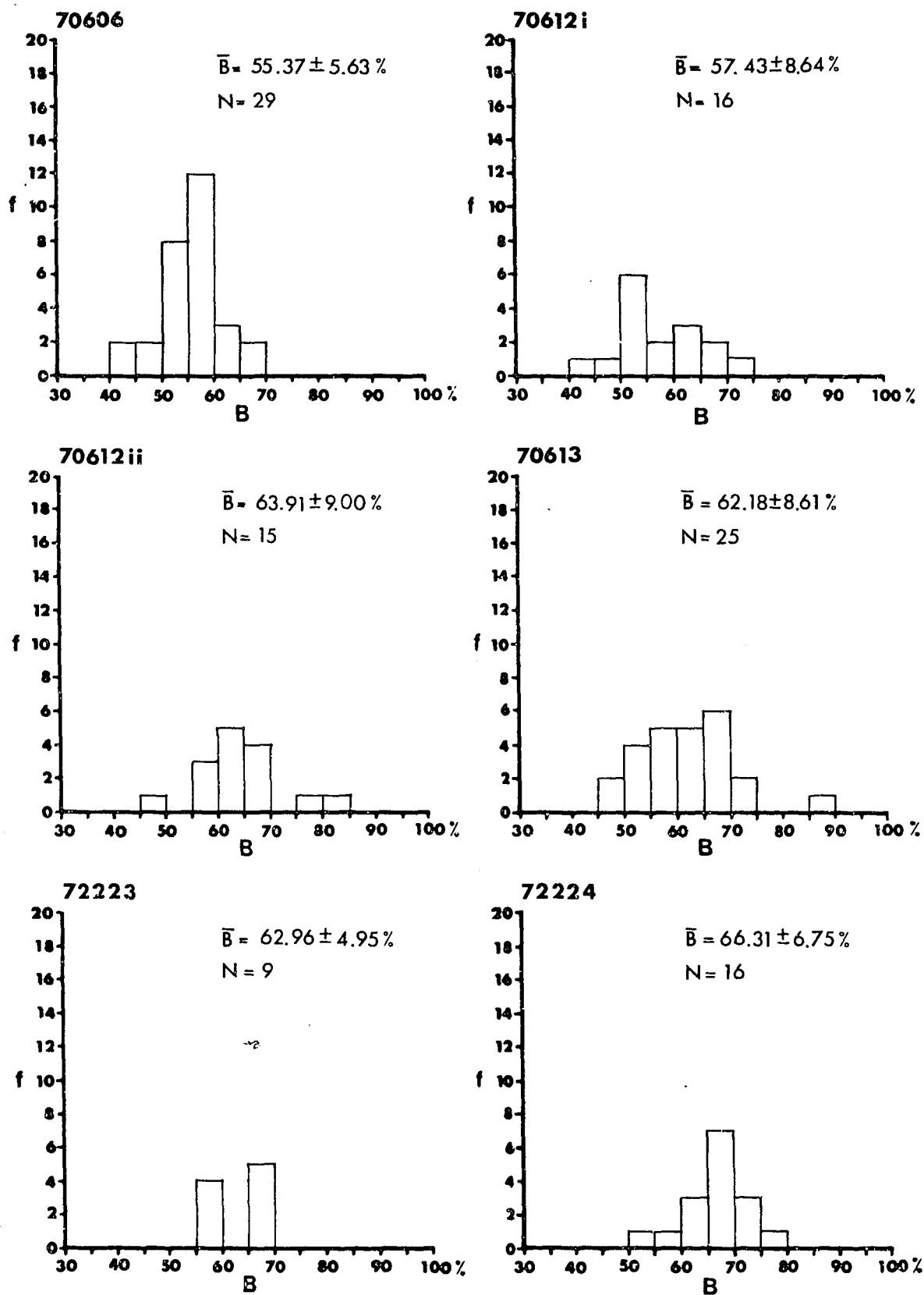


Fig. 45. Histograms for the frequency distribution of values for parameter B in populations of Lepidocyclina (Nephrolepidina), Means, standard deviations and number of specimens studied are also given.

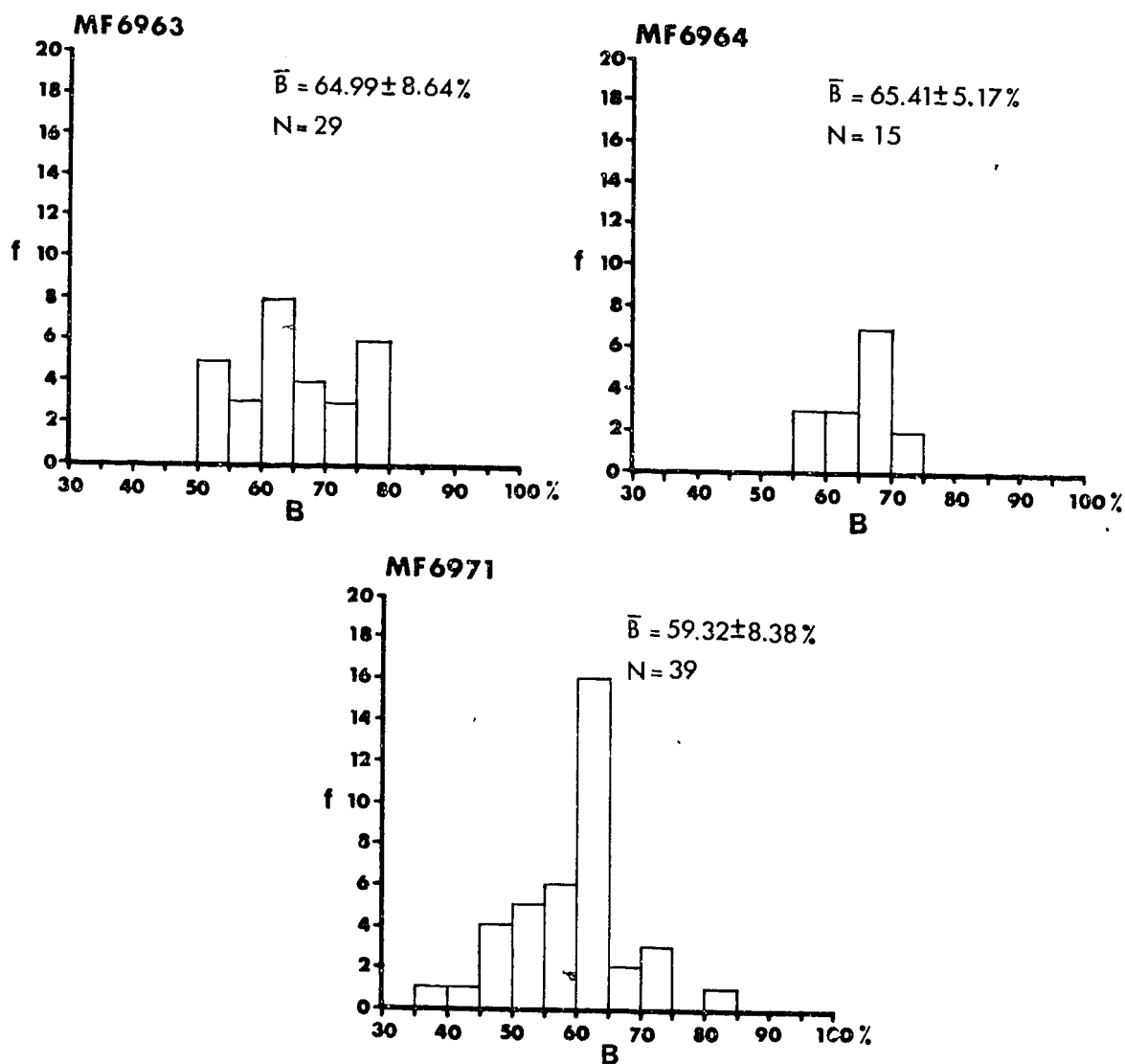


Fig. 46. Histograms for the frequency distribution of values for parameter B in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

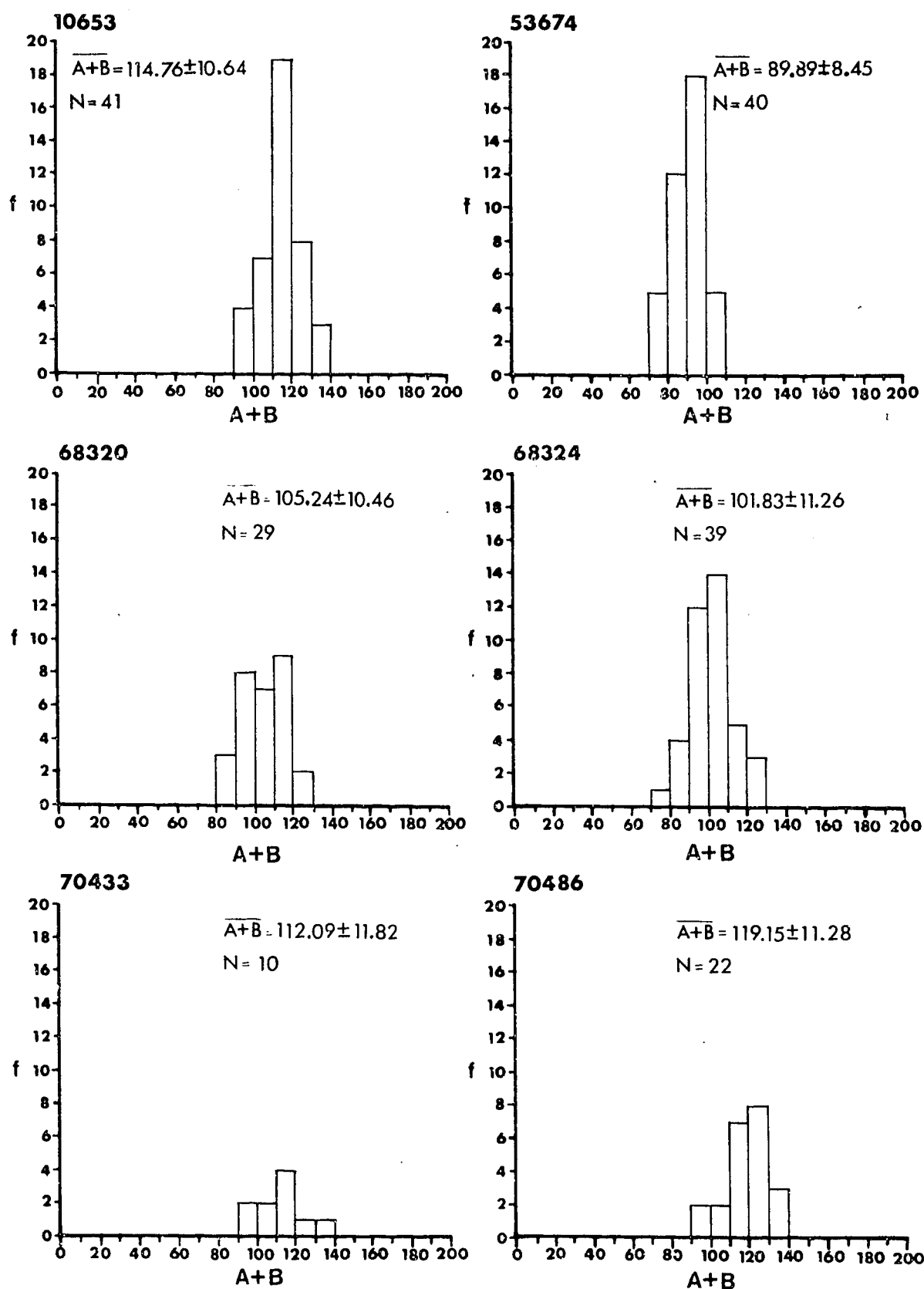


Fig. 47. Histograms for the frequency distribution of values for parameter A+B in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

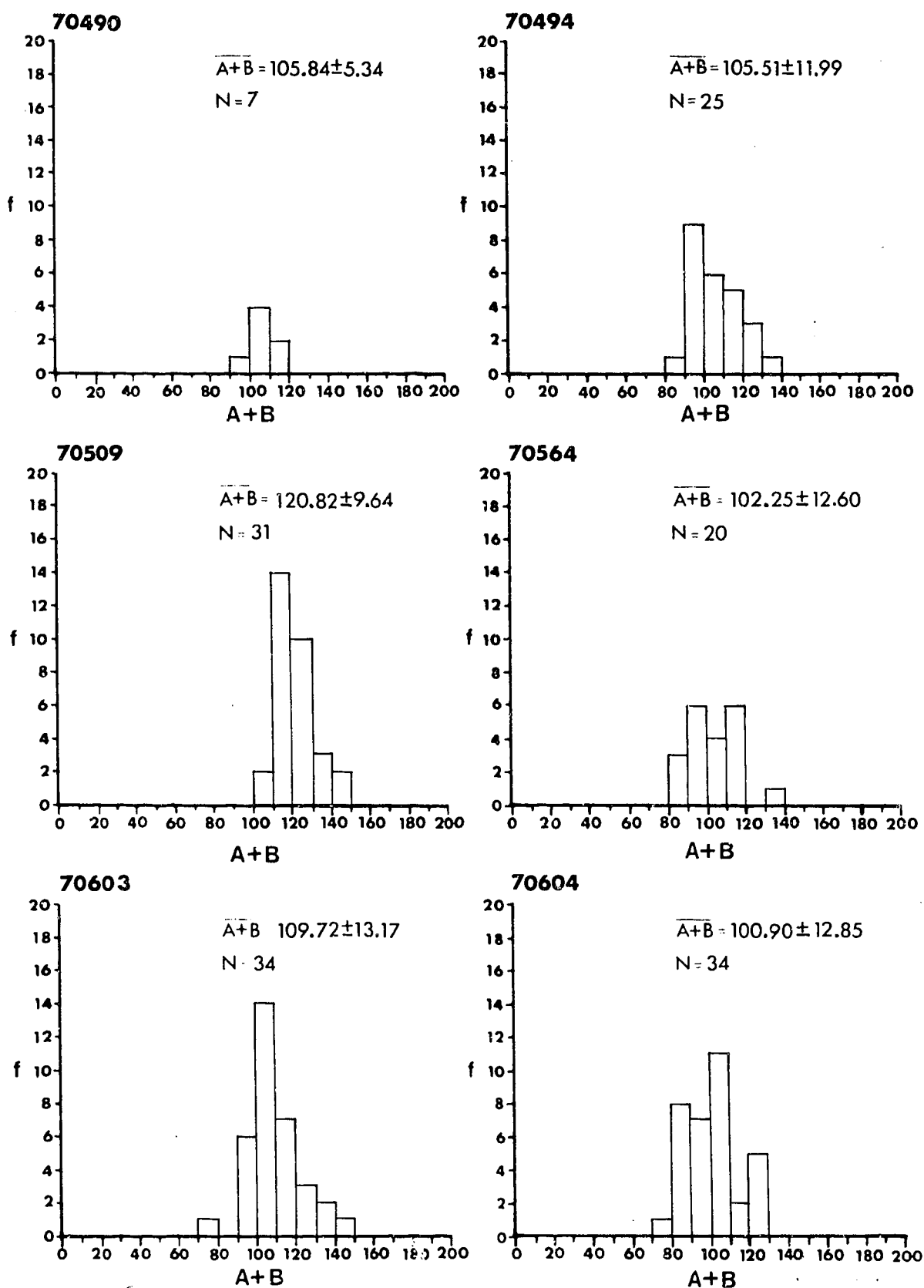


Fig. 48. Histograms for the frequency distribution of values for parameter $A+B$ in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

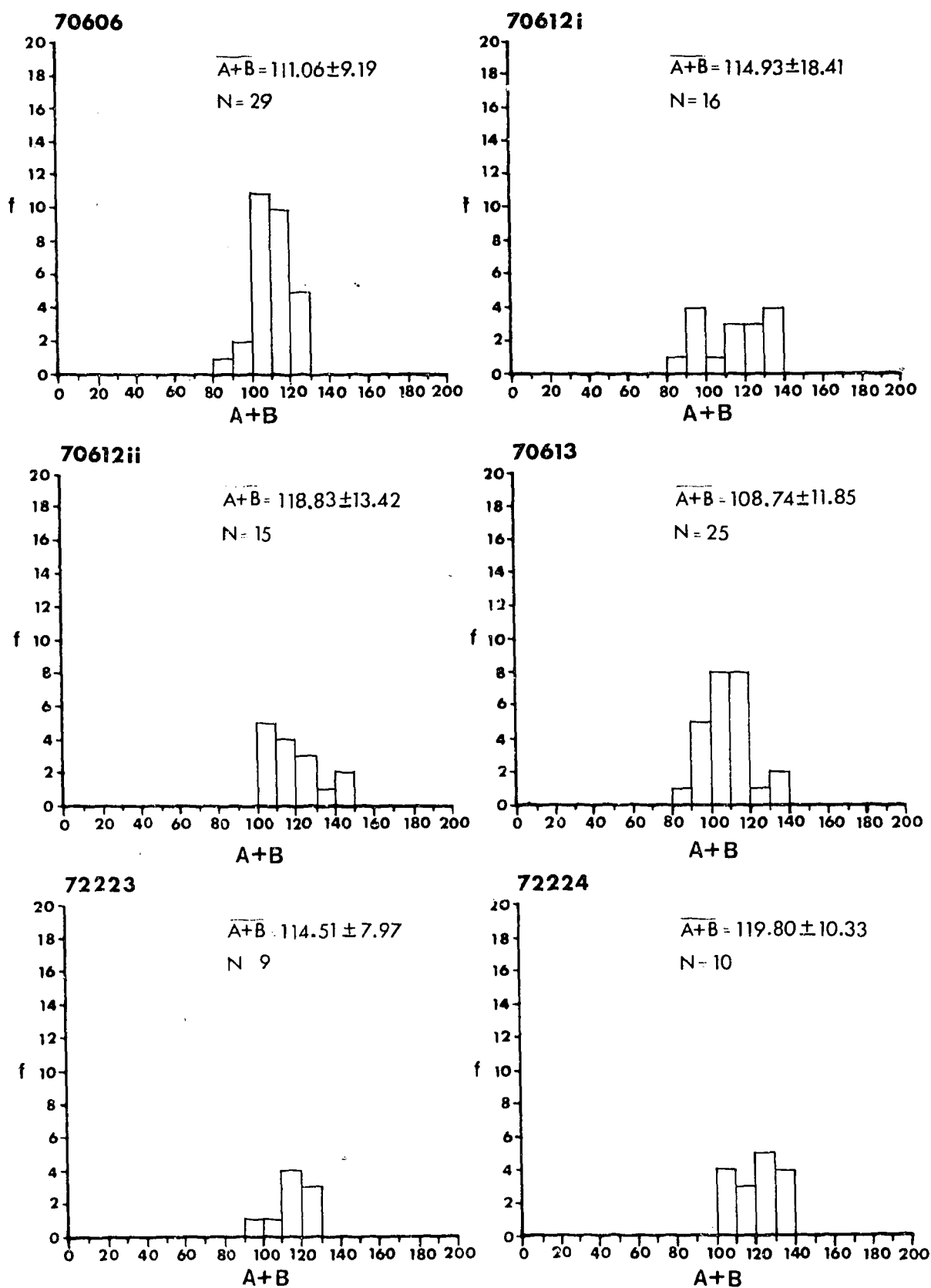


Fig. 49. Histograms for the frequency distribution of values for parameter A+B in populations of Lepidocyclina (Nephrolepidina) Means, standard deviations and number of specimens studied are also given.

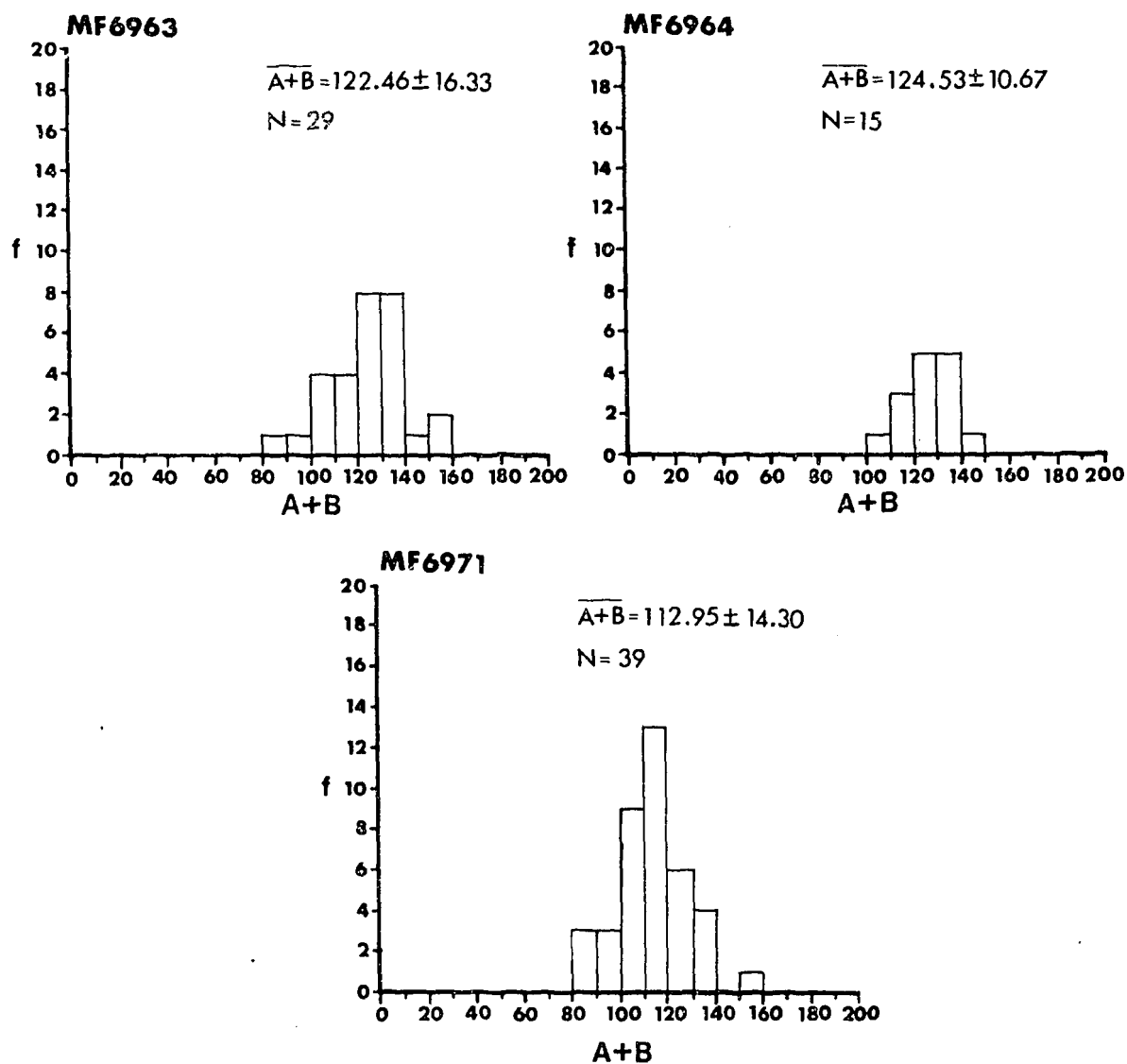


Fig. 50. Histograms for the frequency distribution of values for parameter A+B in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

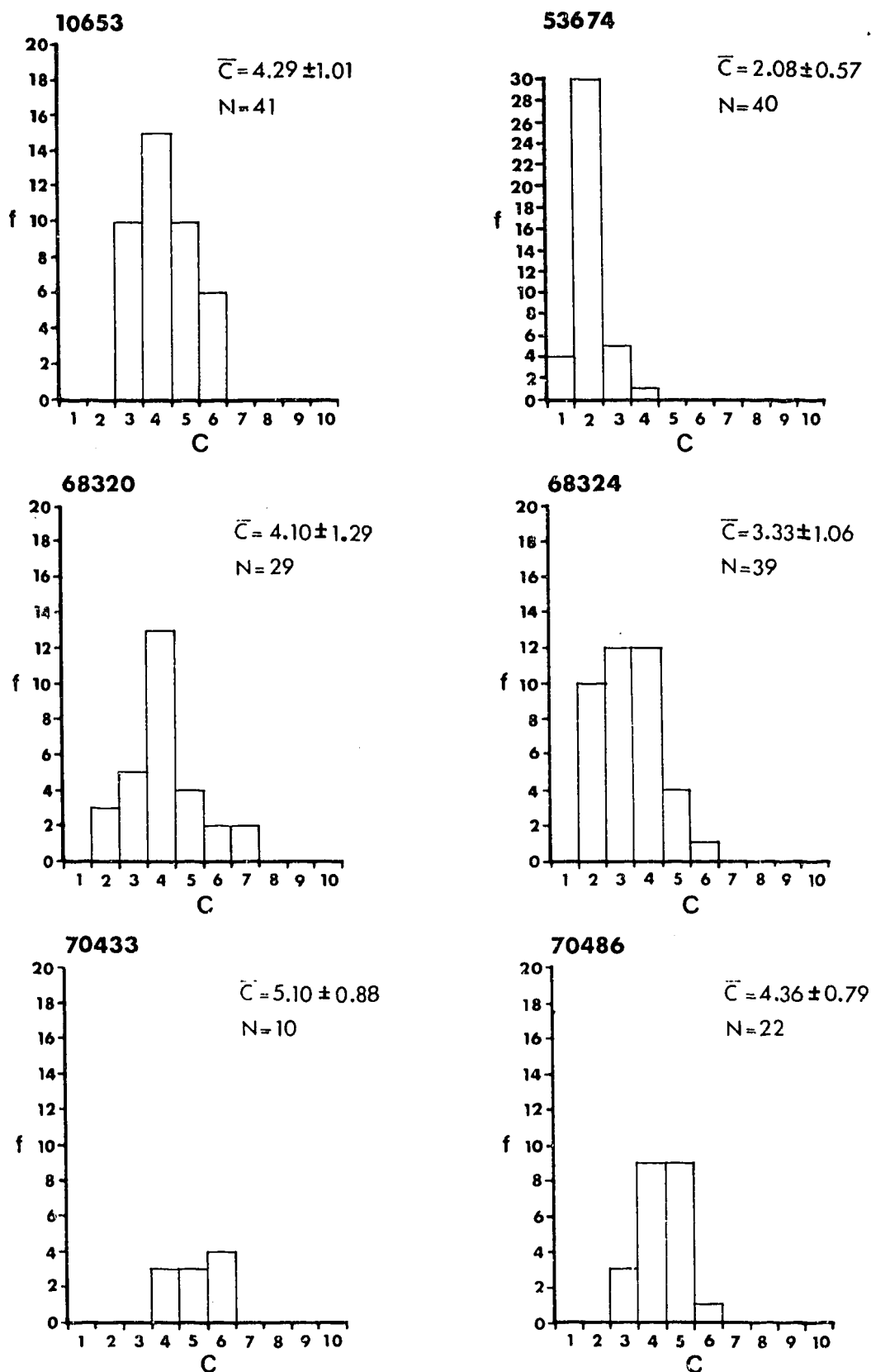


Fig. 51. Histograms for the frequency distribution of values for parameter C in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

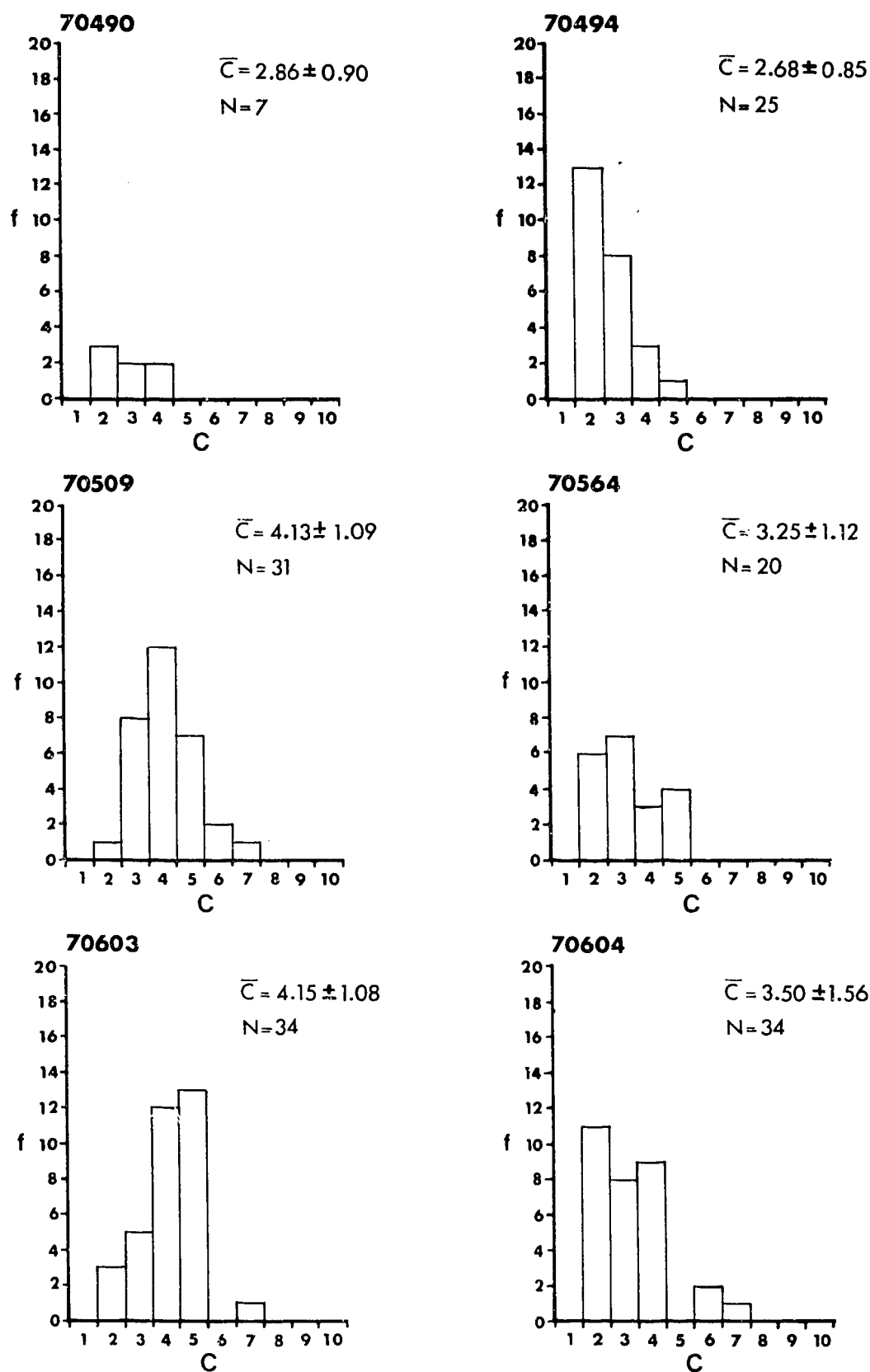


Fig. 52. Histograms for the frequency distribution of values for parameter C in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

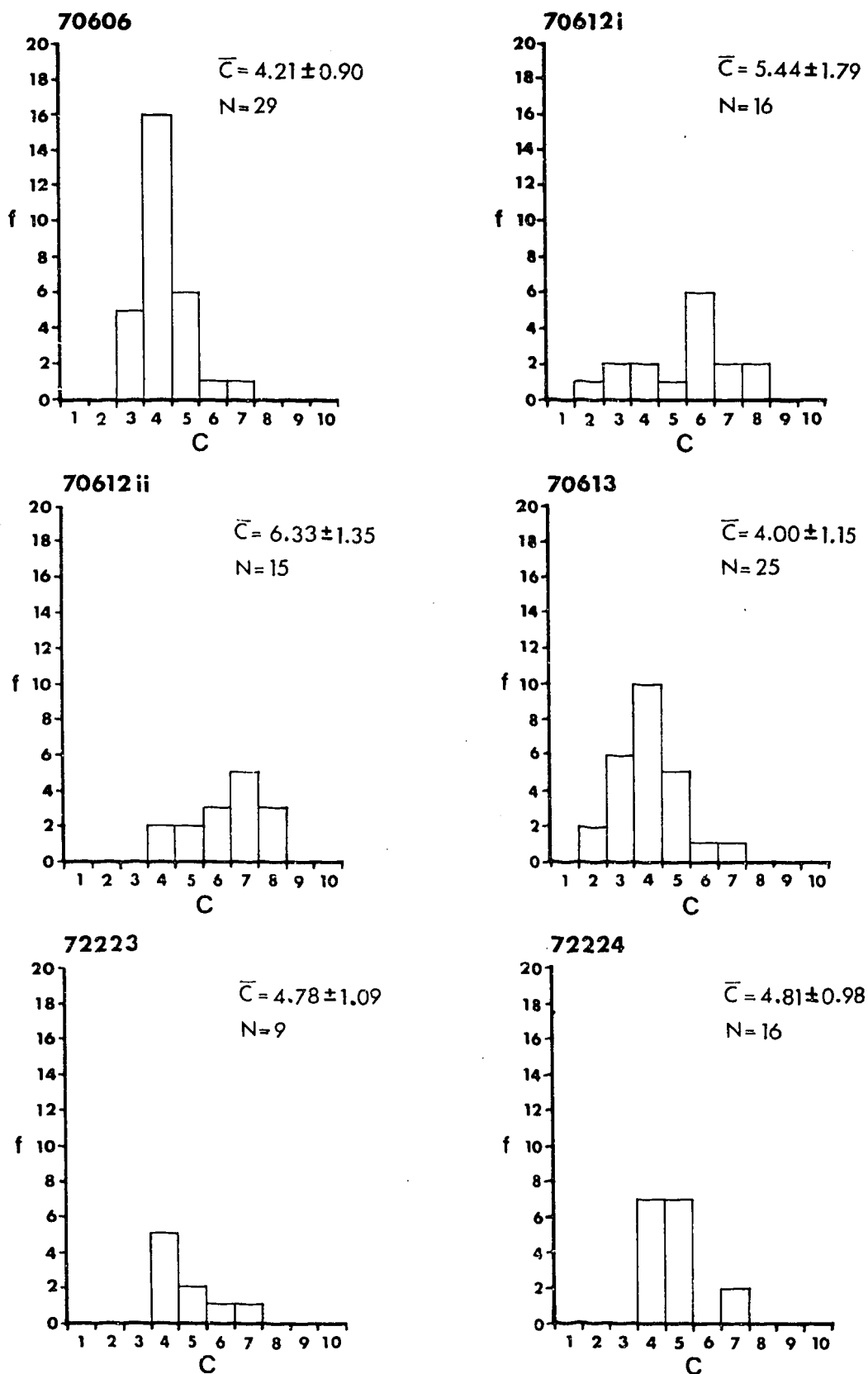


Fig. 53. Histograms for the frequency distribution of values for parameter C in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

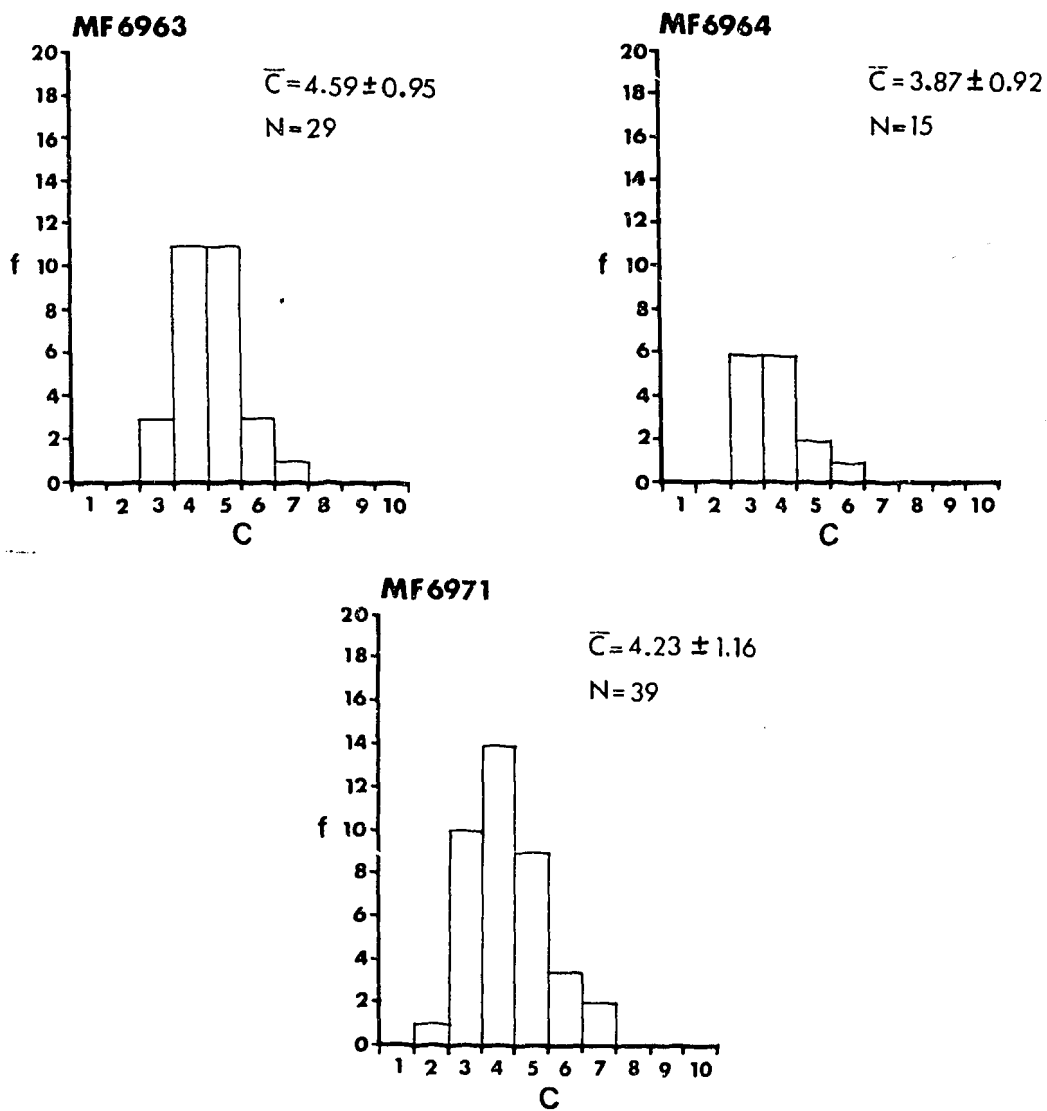


Fig. 54. Histograms for the frequency distribution of values for parameter C in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

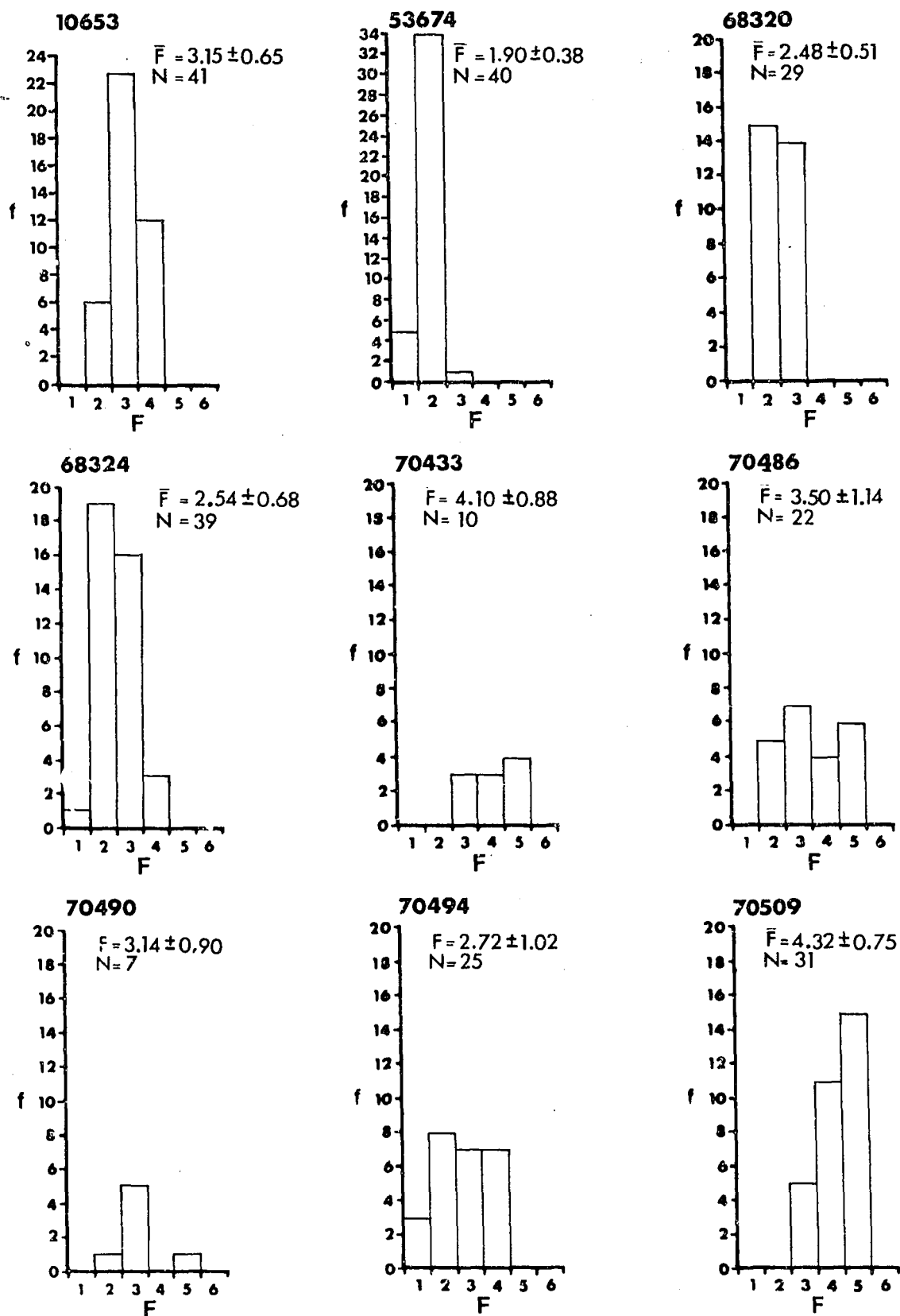


Fig. 55. Histograms for the frequency distribution of values for parameter F in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

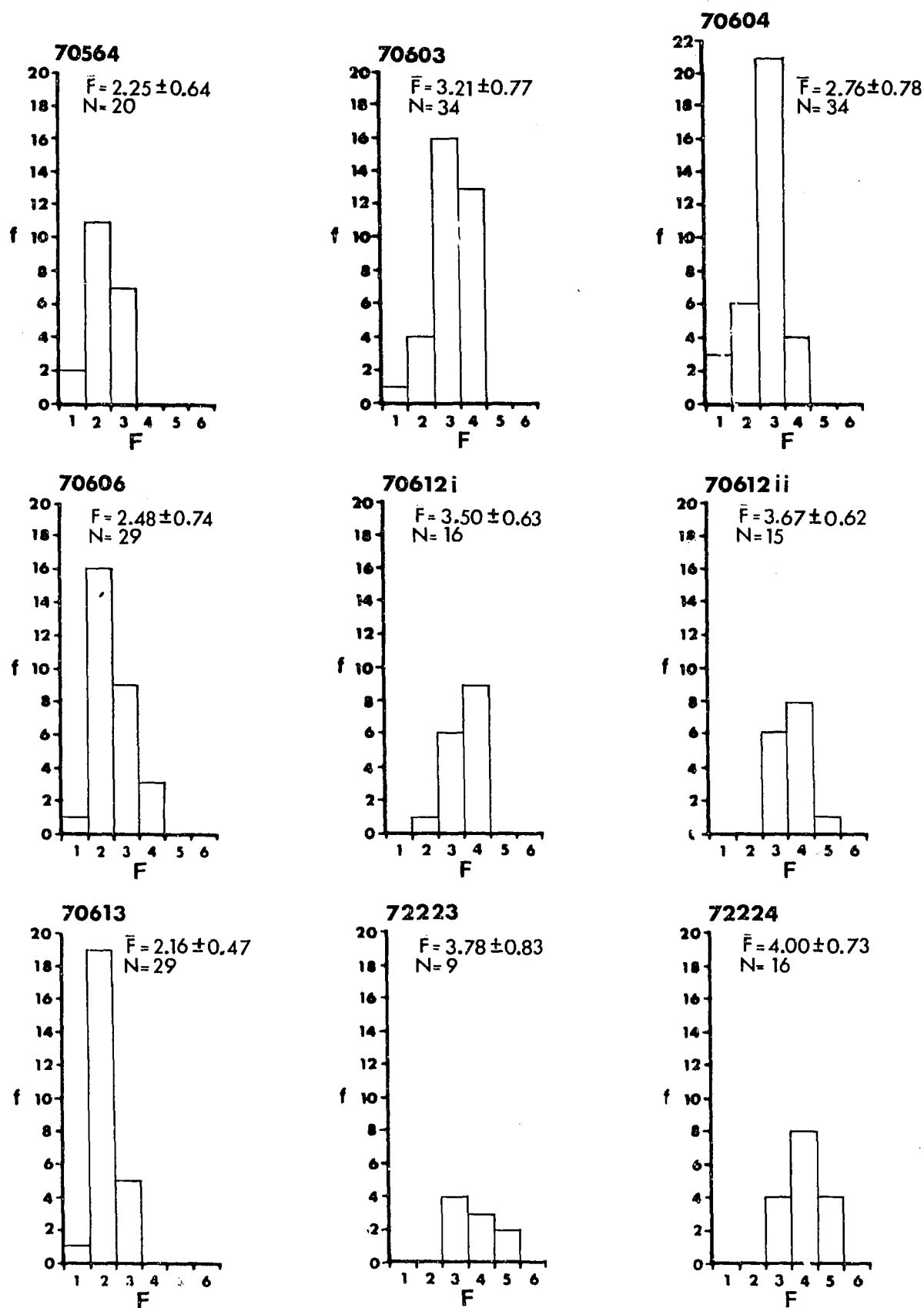


Fig. 56. Histograms for the frequency distribution of values for parameter *F* in populations of *Lepidocyclina* (*Nephrolepidina*). Means, standard deviations and number of specimens studied are also given.

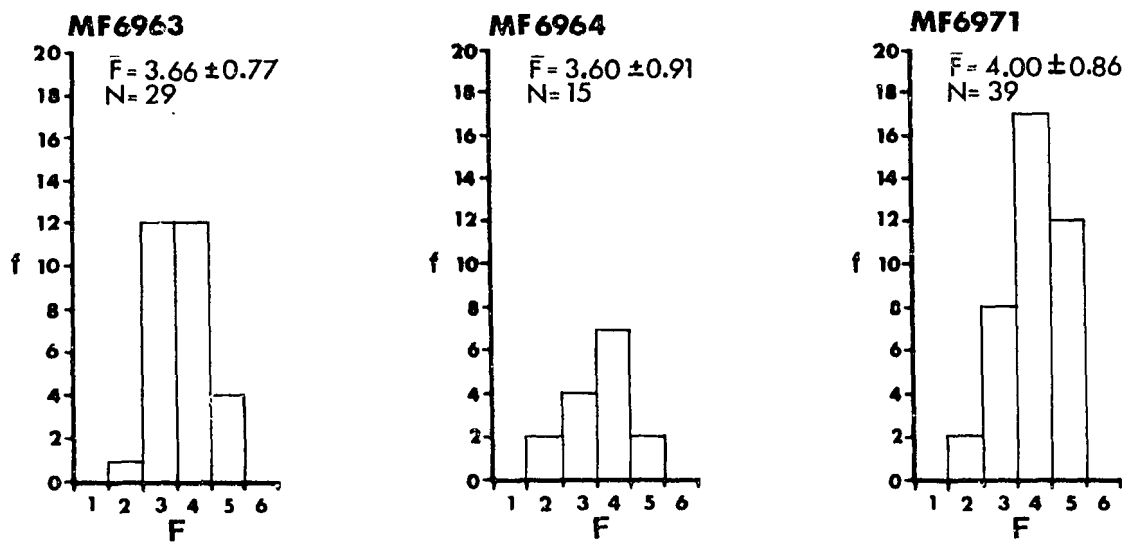


Fig. 57. Histograms for the frequency distribution of values for parameter F in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

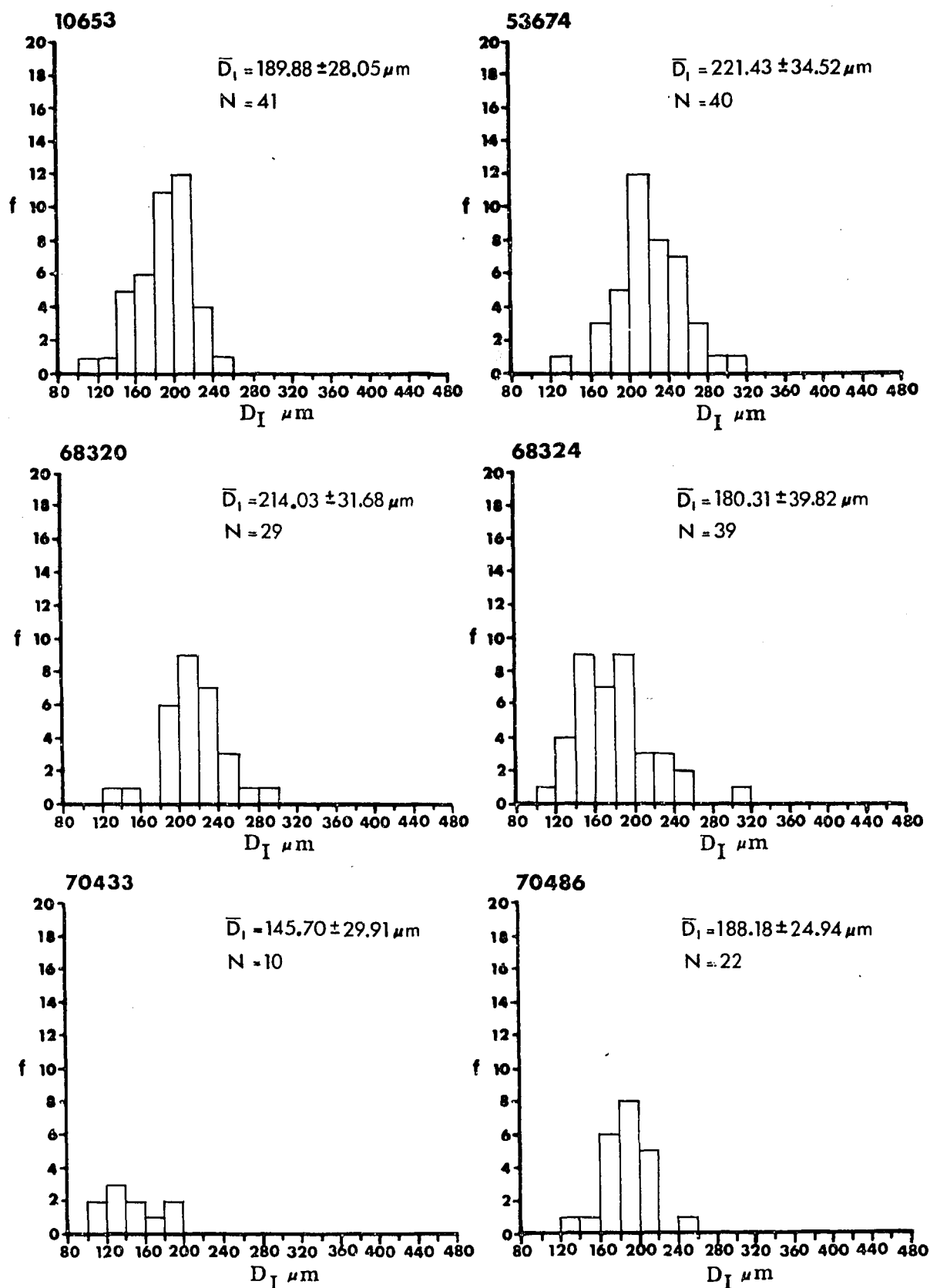


Fig. 58. Histograms for the frequency distribution of values for parameter D_I in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

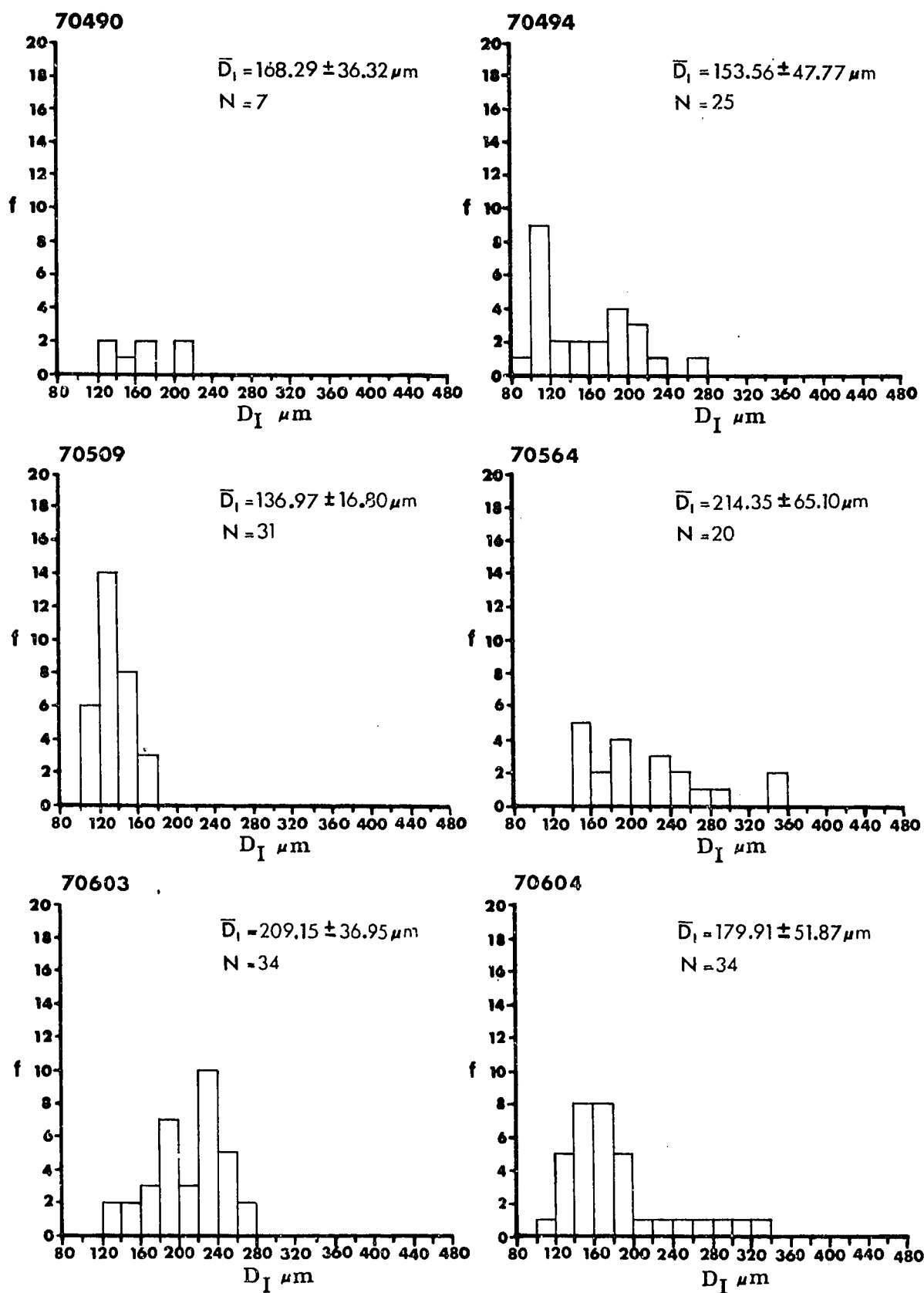


Fig. 59. Histograms for the frequency distribution of values for parameter D_I in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

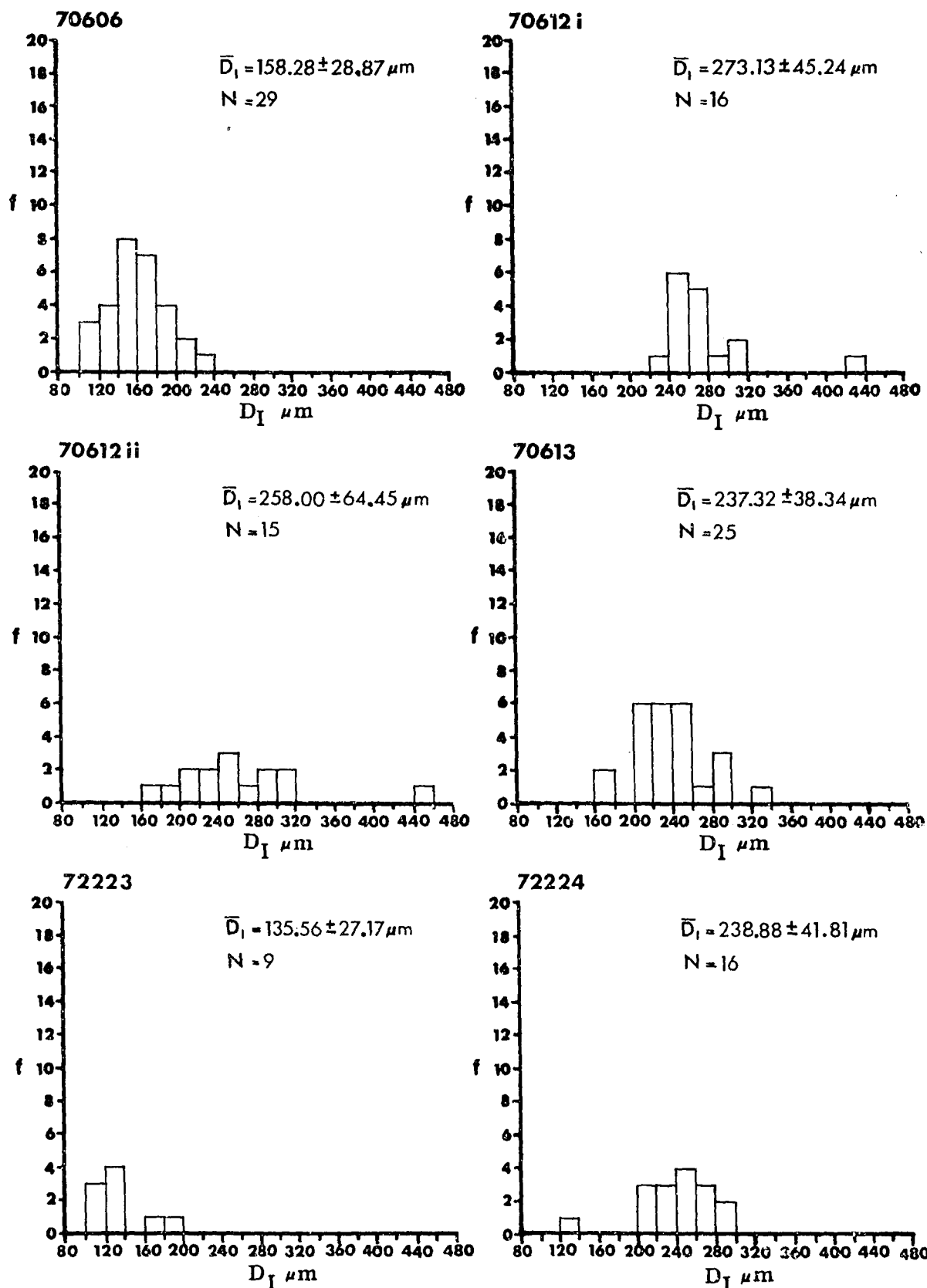


Fig. 60. Histograms for the frequency distribution of values for parameter D_I in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

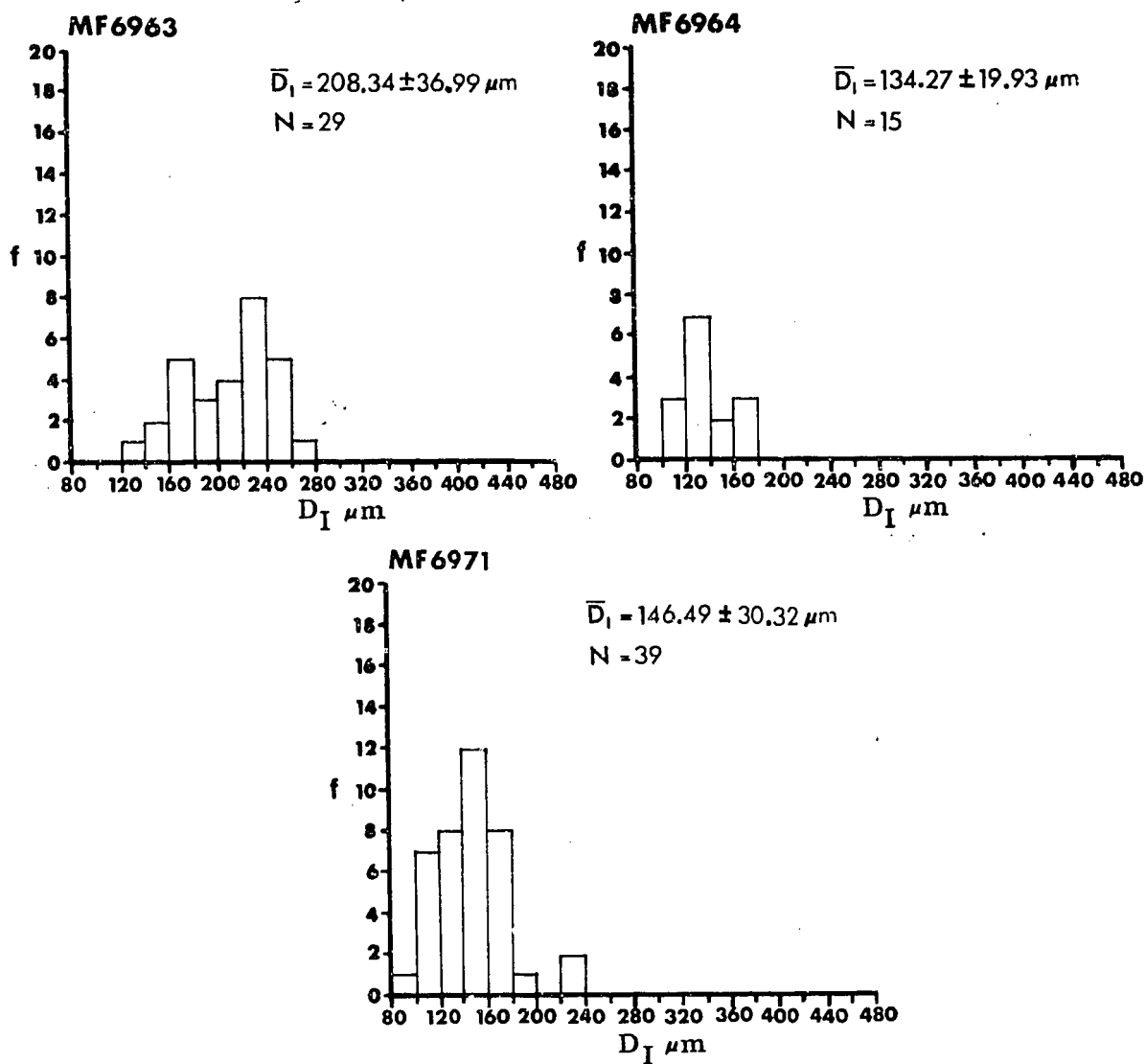


Fig. 61. Histograms for the frequency distribution of values for parameter D_I in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

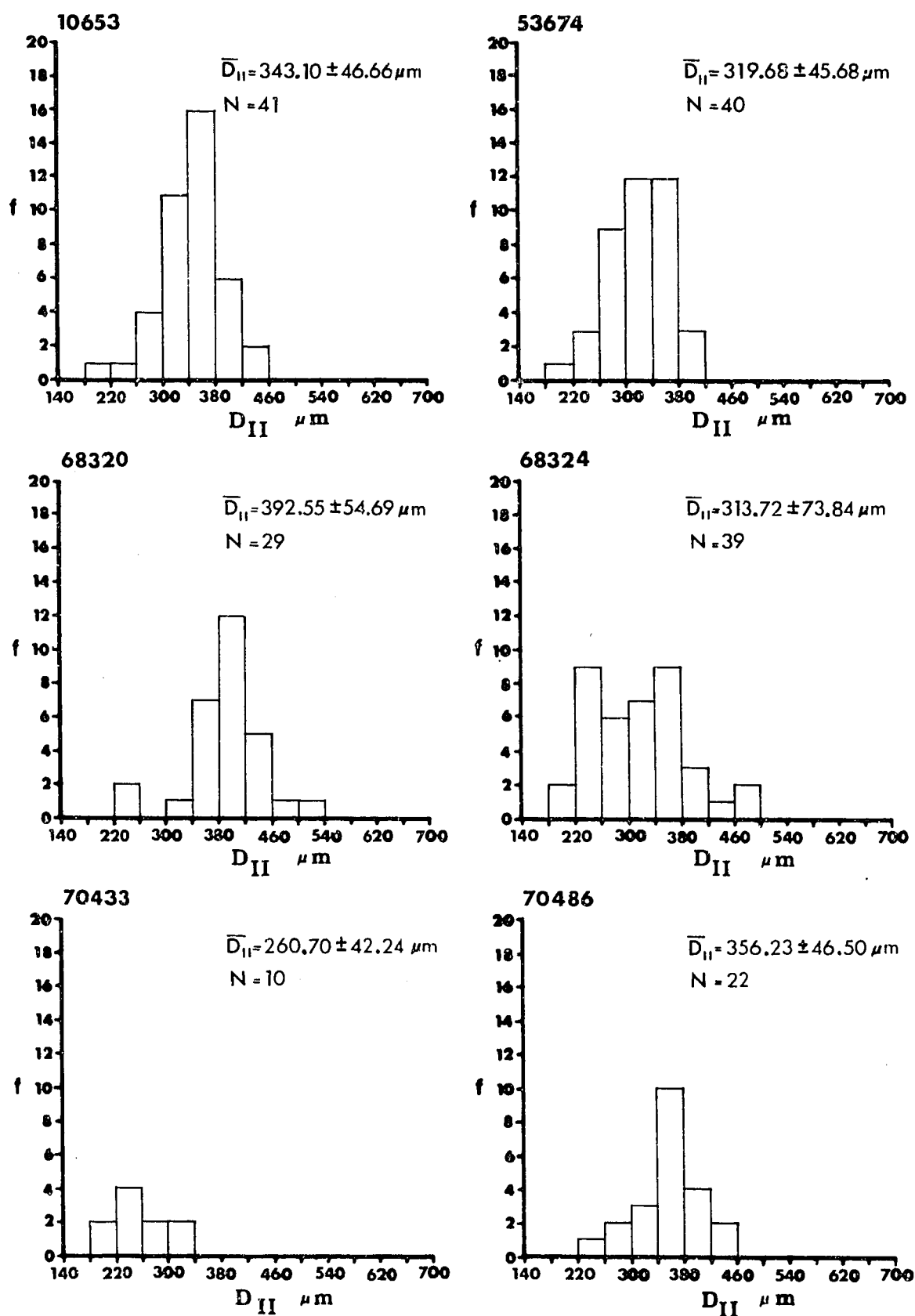


Fig. 62. Histograms for the frequency distribution of values for parameter D_{II} in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

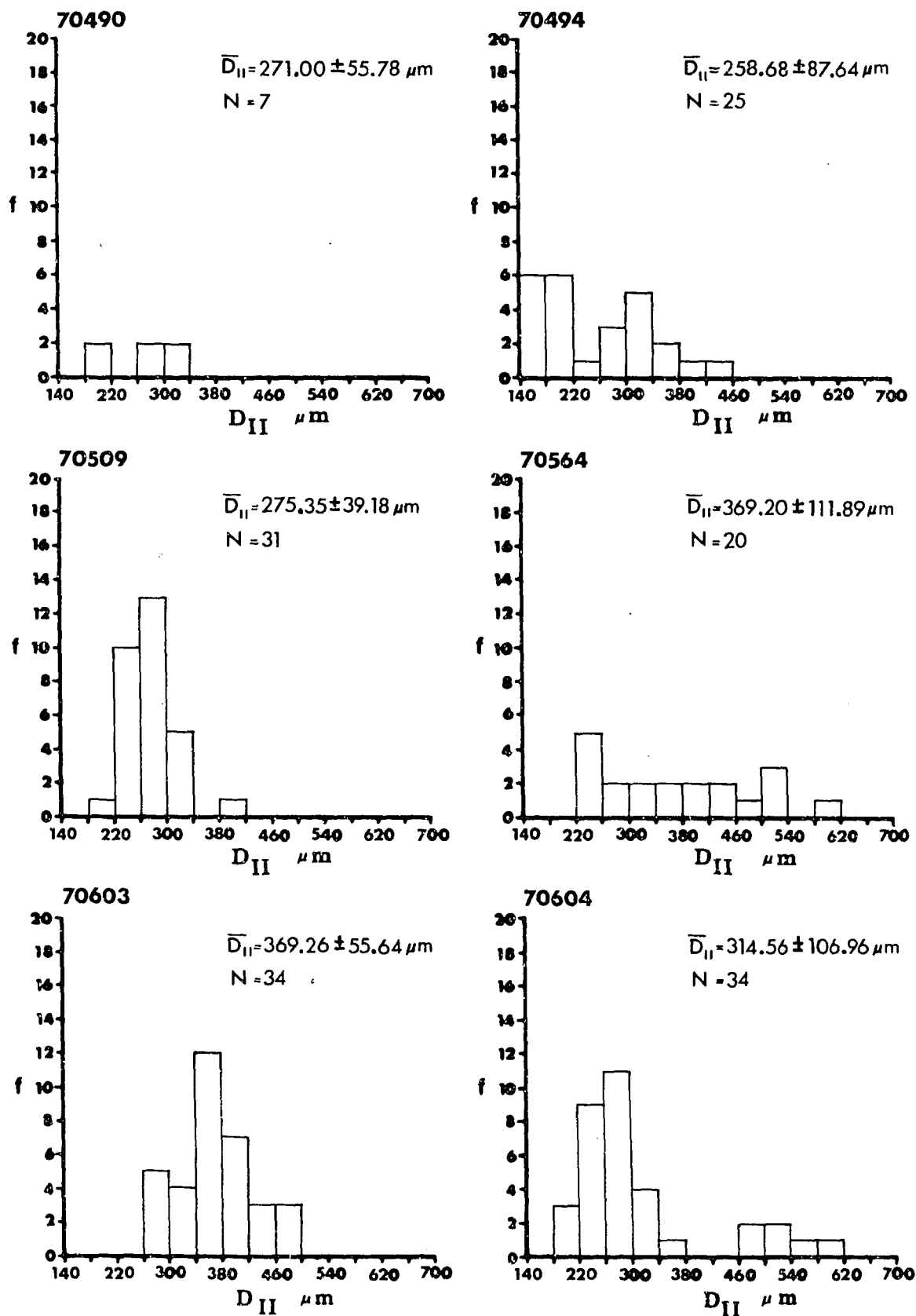


Fig. 63. Histograms for the frequency distribution of values for parameter D_{II} in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

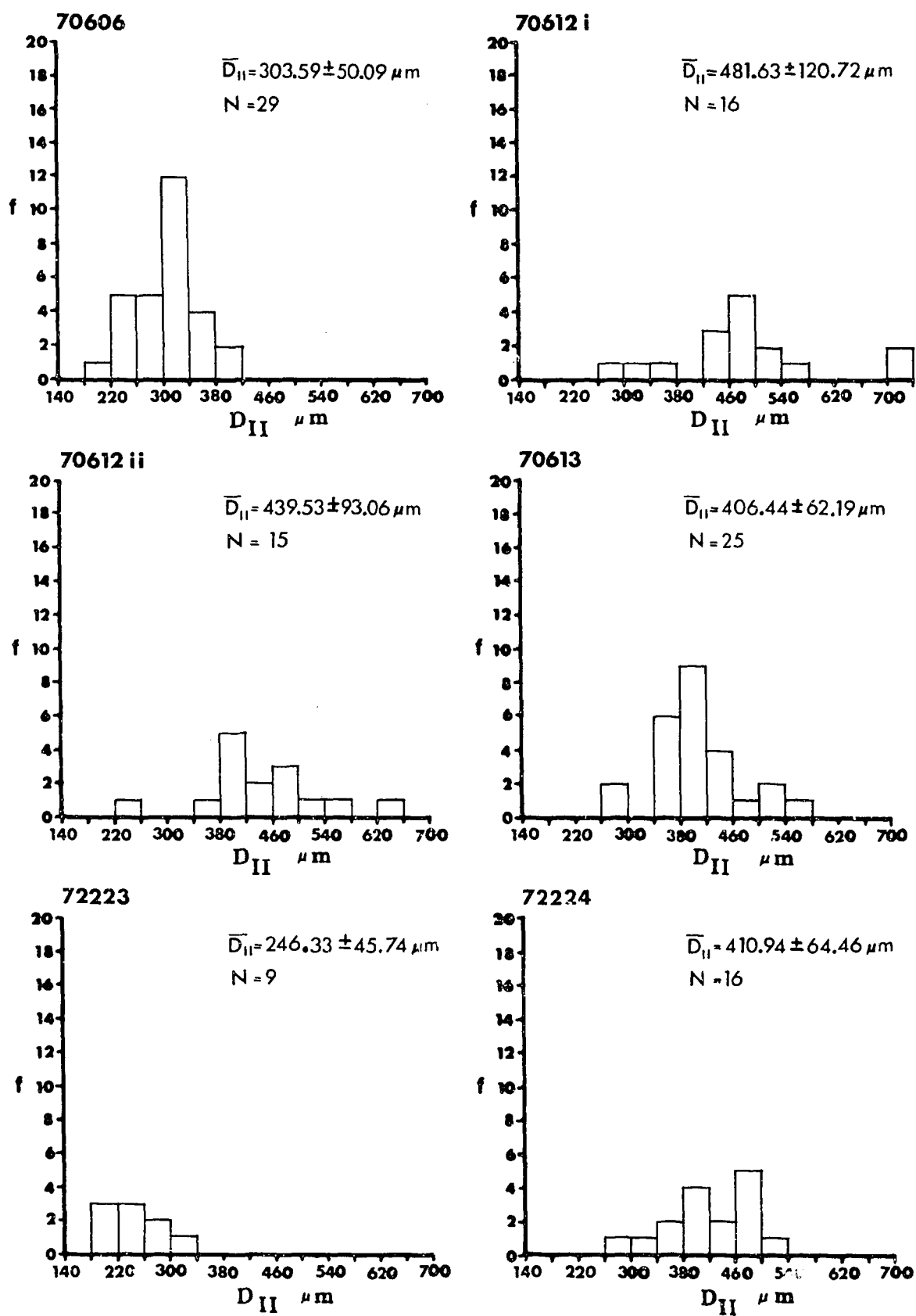


Fig. 64. Histograms for the frequency distribution of values for parameter D_{II} in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

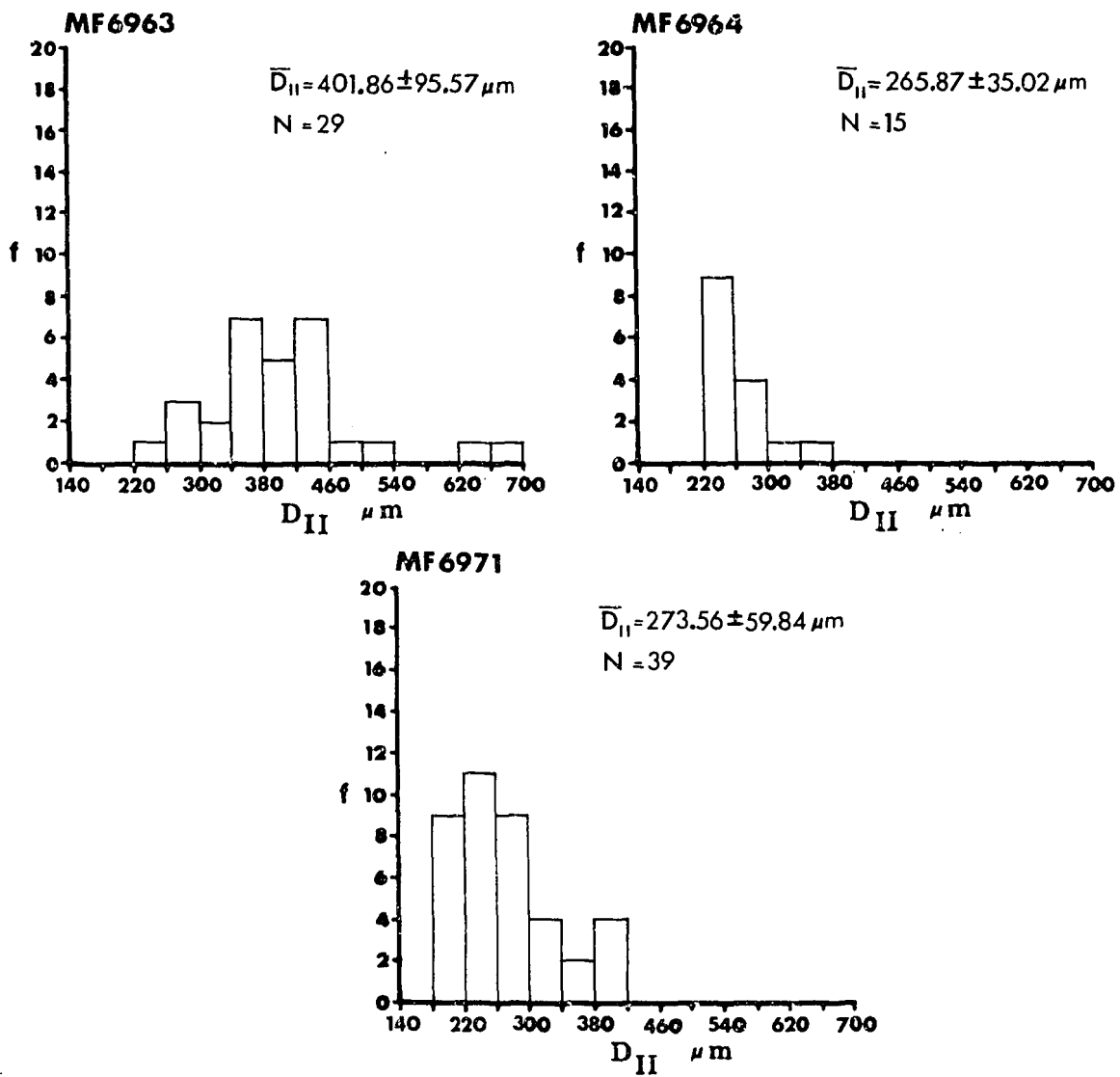


Fig. 65. Histograms for the frequency distribution of values for parameter D_{II} in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

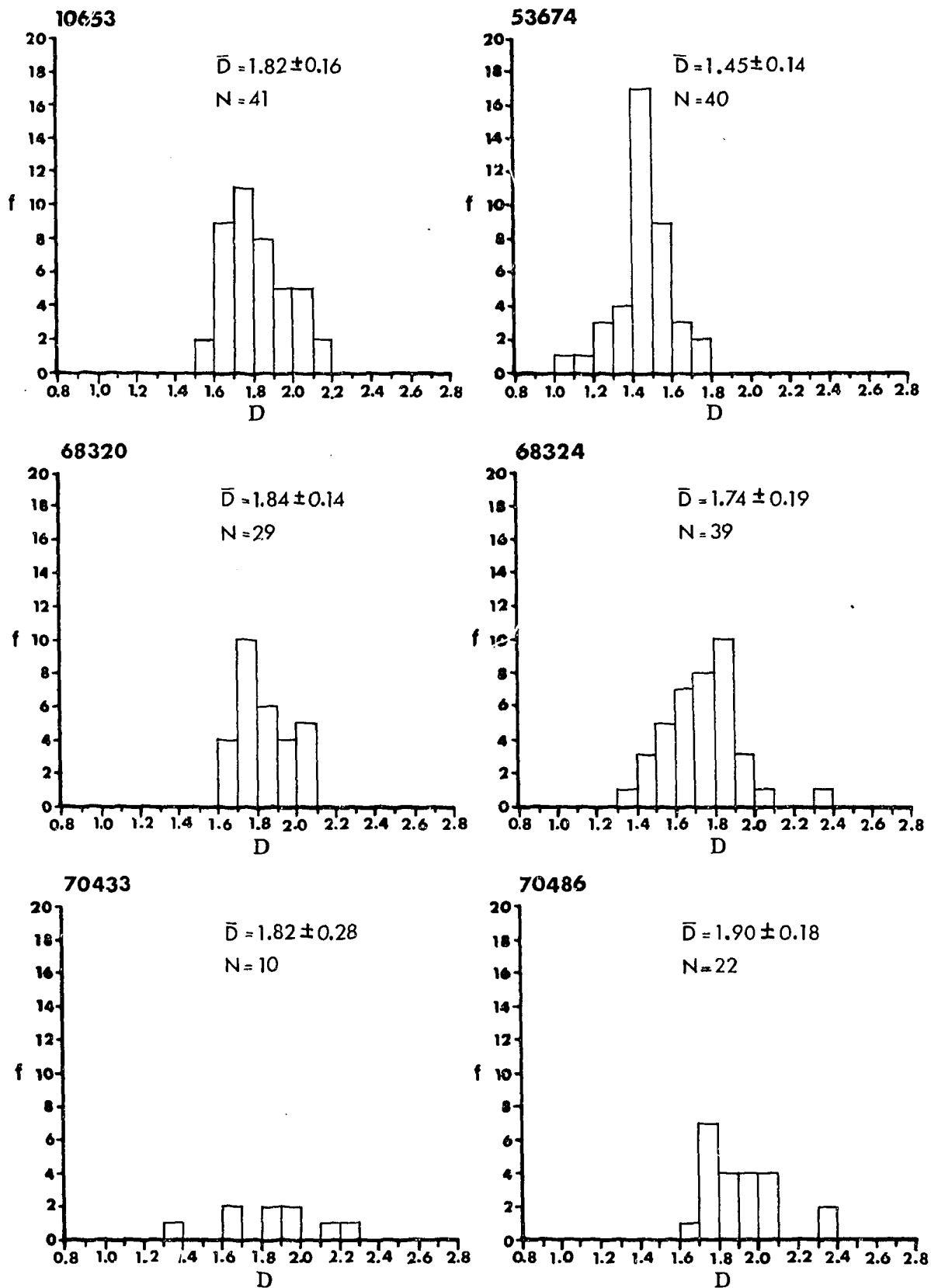


Fig. 66. Histograms for the frequency distribution of values for parameter D in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

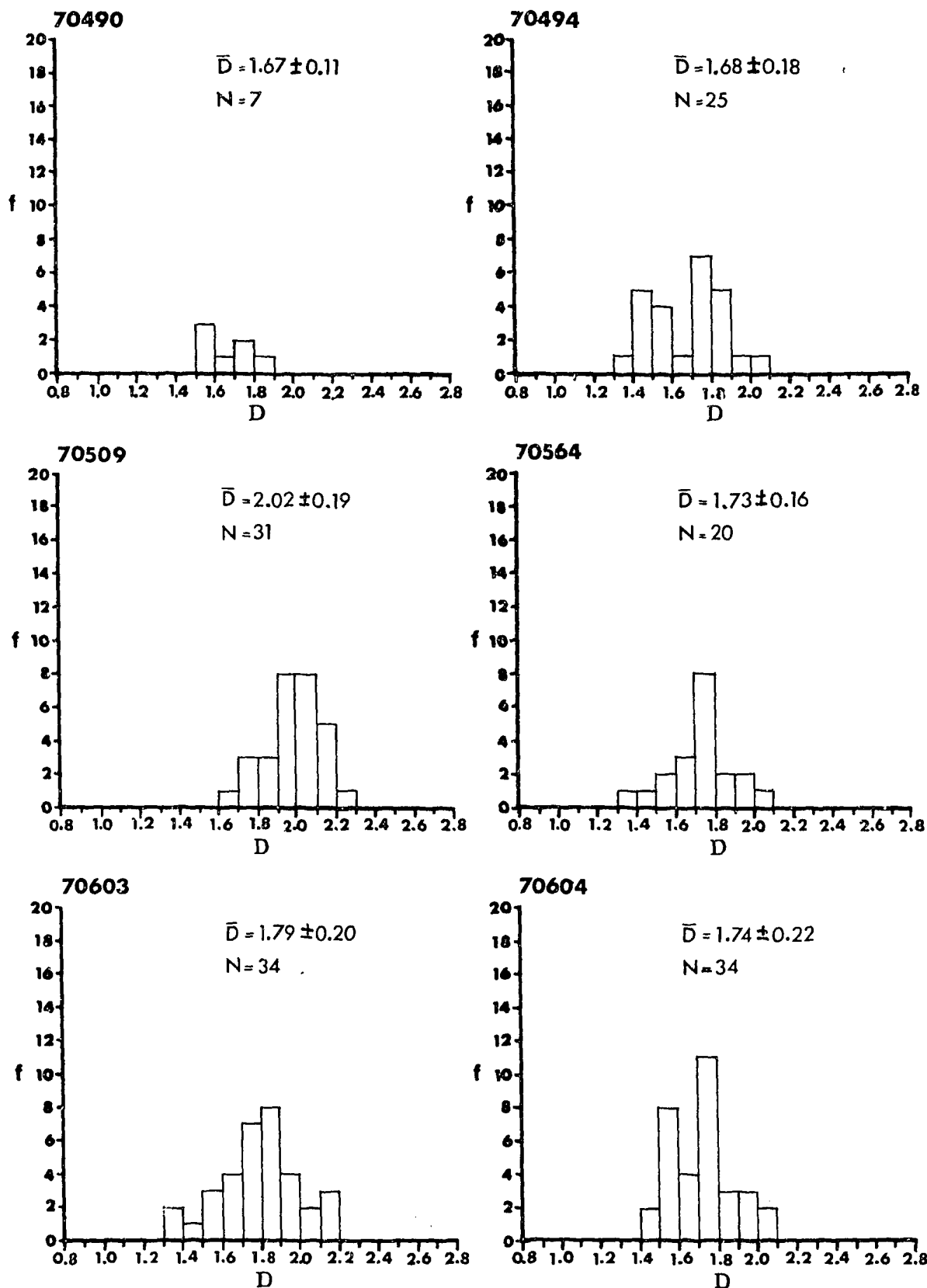


Fig. 67: Histograms for the frequency distribution of values for parameter D in populations of *Lepidocyclus* (*Nephrolepidina*). Means, standard deviations and number of specimens studied are also given.

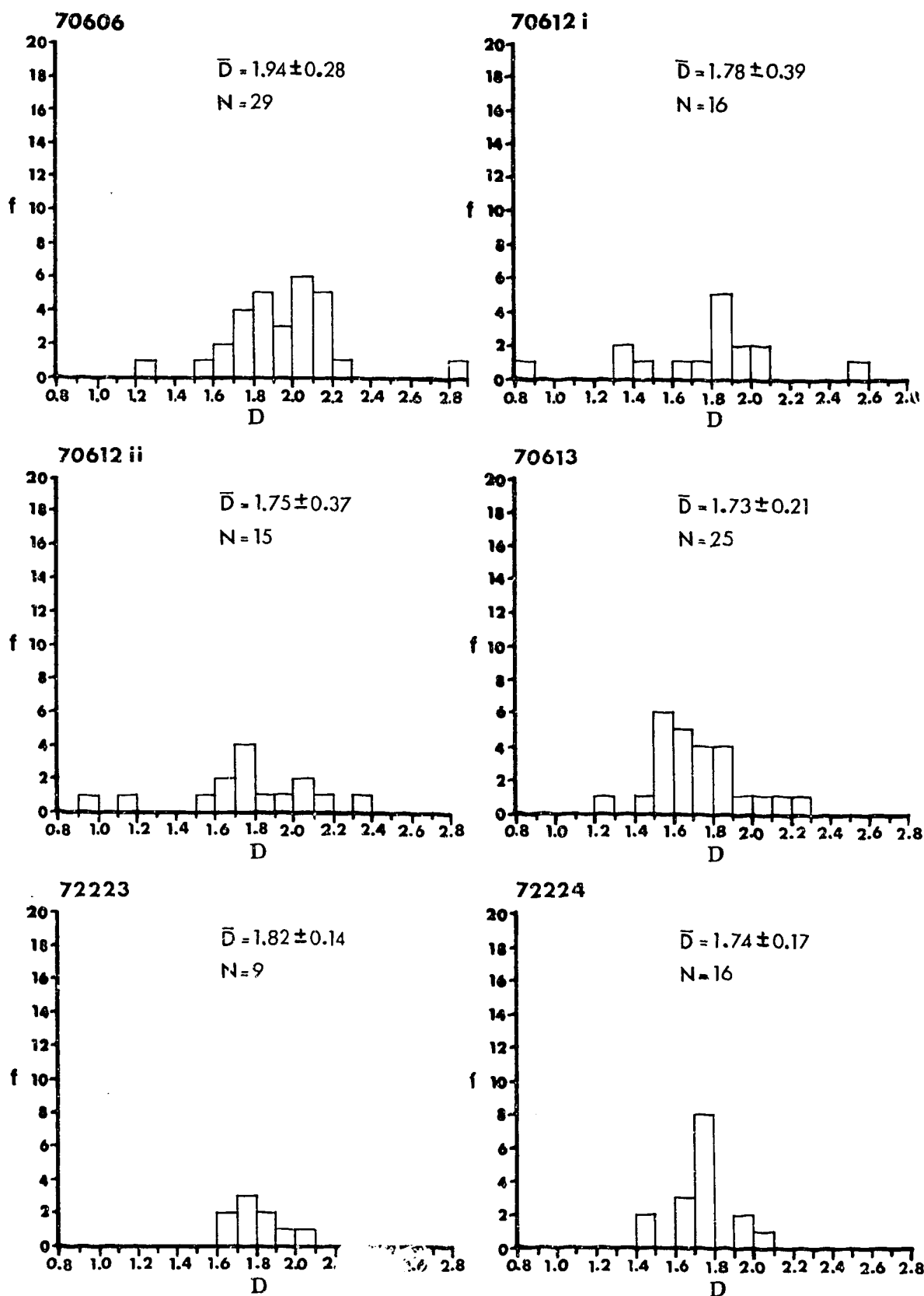


Fig. 68. Histograms for the frequency distribution of values for parameter D in populations of *Lepidocyclina* (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

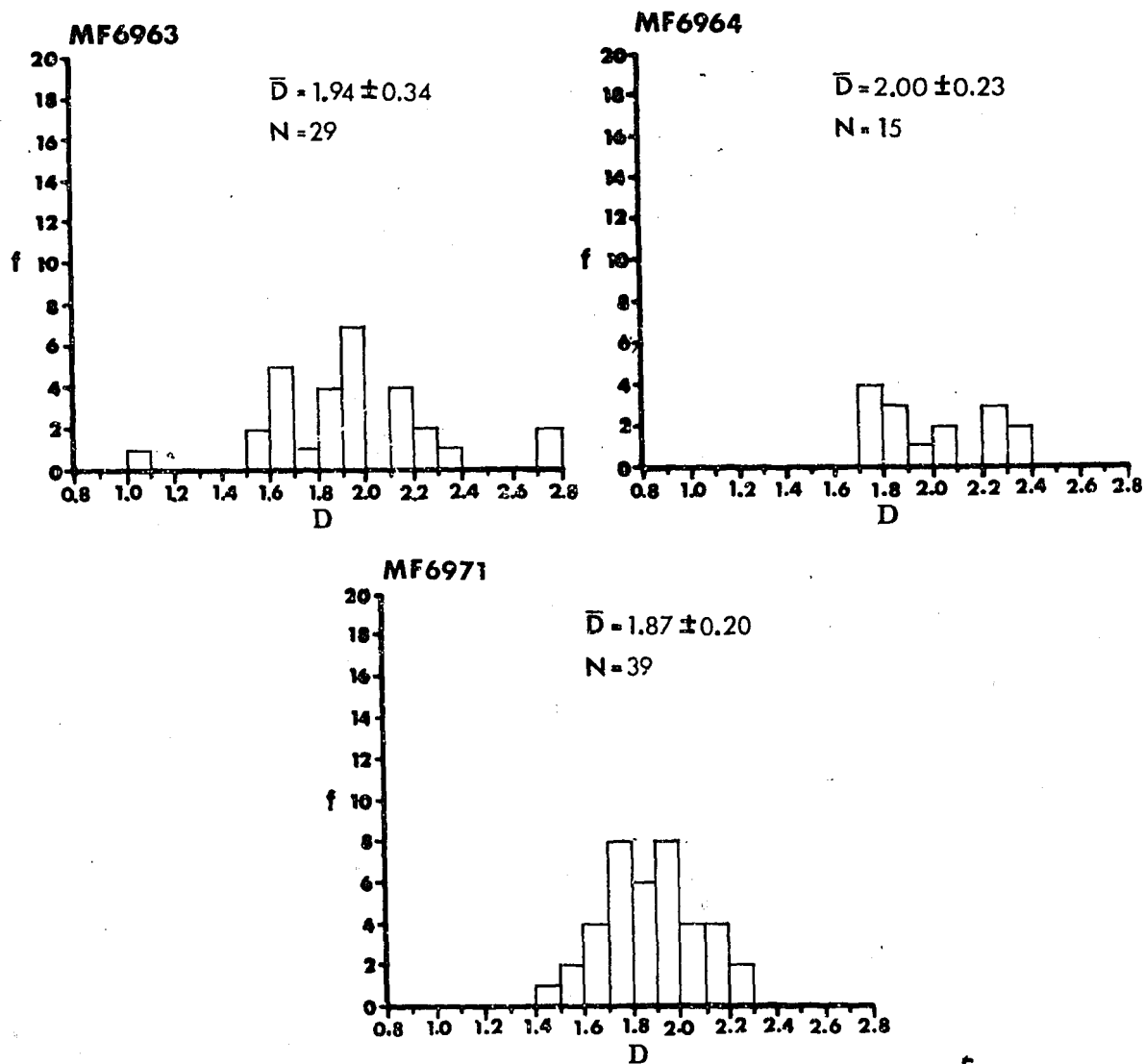


Fig. 69. Histograms for the frequency distribution of values for parameter D in populations of Lepidocyclina (Nephrolepidina). Means, standard deviations and number of specimens studied are also given.

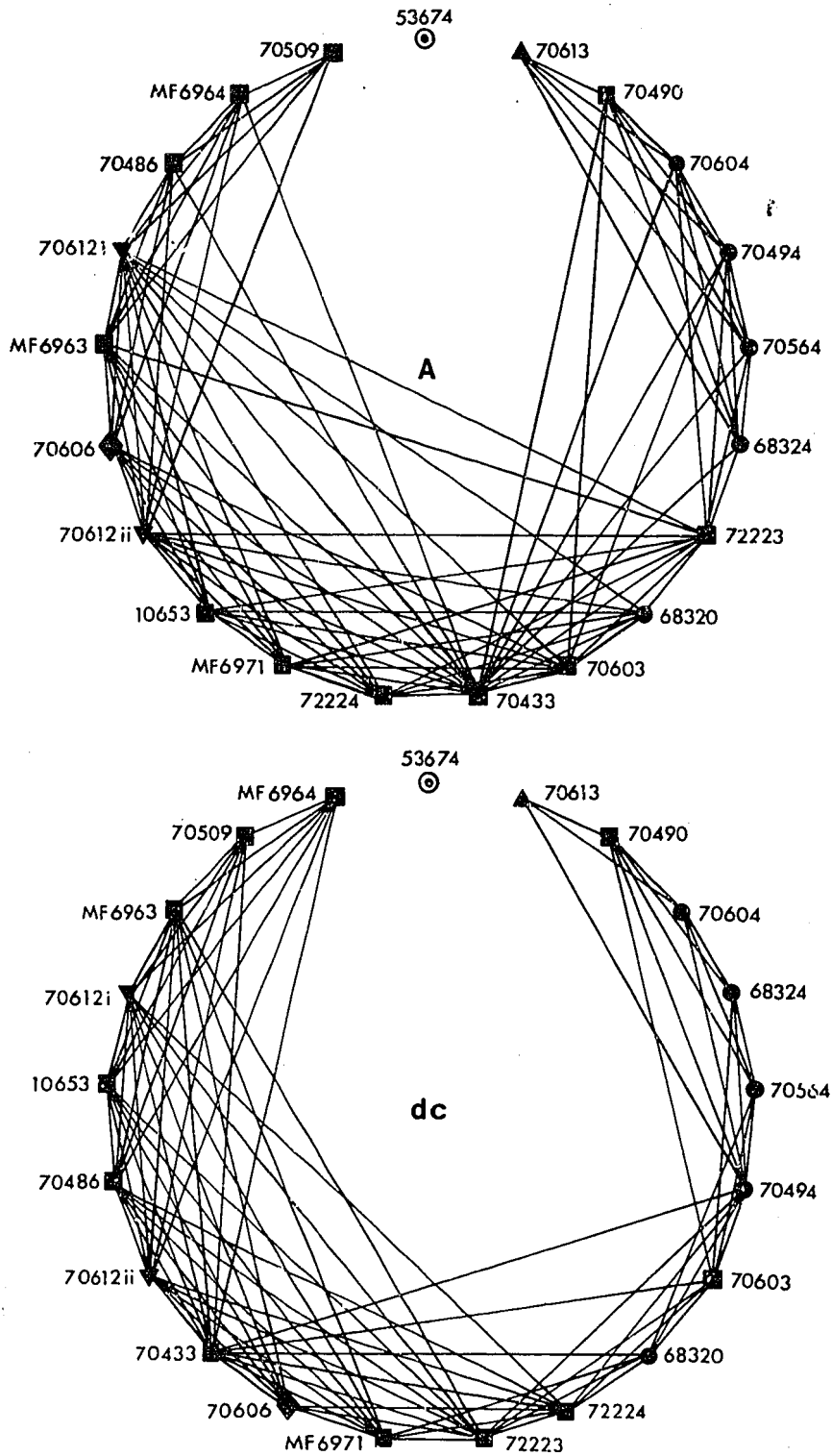


Fig. 70. Results of t-test between populations of *Lepidocyclina* (*Nephrolepidina*) from Australia and New Zealand for parameters A and dc. Lines between populations indicates that the differences between them are non-significant at the 95% level of confidence. The taxonomic location of the populations is indicated by symbols: ⊙ - *sumatrensis*; ● - *howchini* subsp. nov.; ■ - *howchini howchini*; ◆ - *japonica*; ▲ - *orakeiensis orakeiensis*; ▼ - *orakeiensis* subsp. nov.

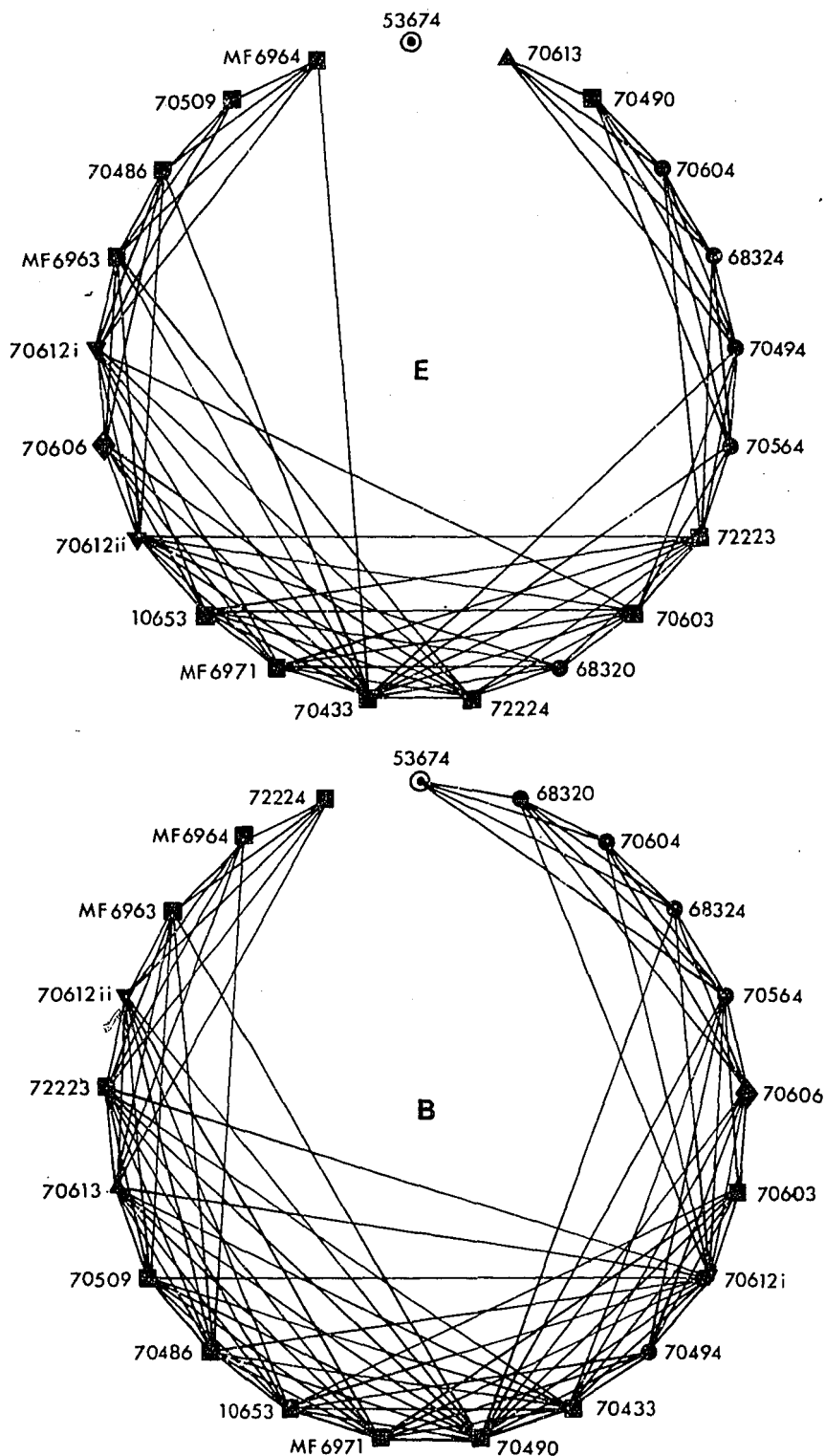


Fig. 71. Results of t-test between populations of *Lepidocyclus* (Nephrolepidina) from Australia and New Zealand for parameters E and B. Lines between populations indicates that the differences between them are non-significant at the 95% level of confidence. The taxonomic location of the populations is indicated by symbols (see fig. 70).

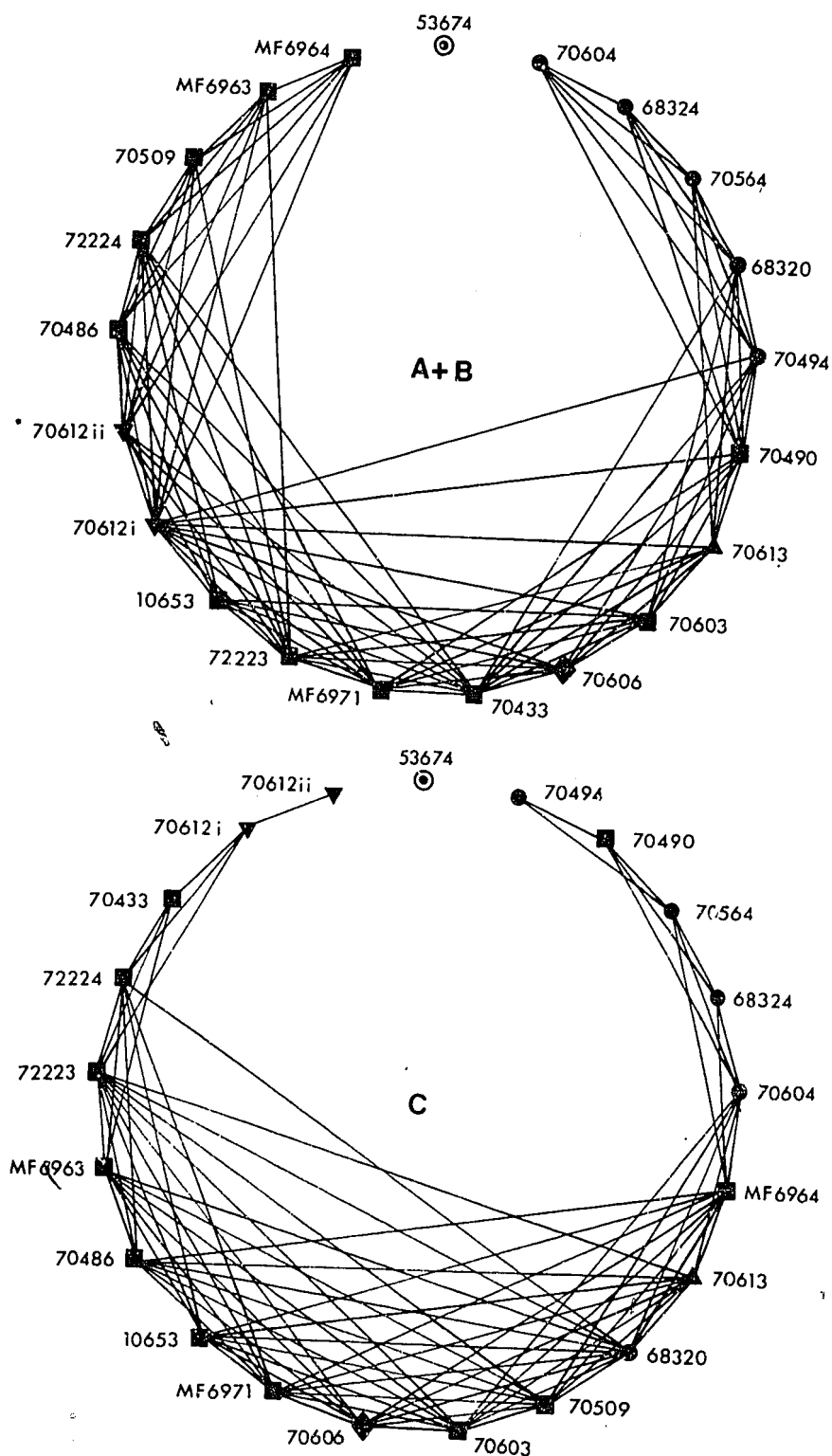


Fig. 72. Results of t-test between populations of *Lepidocyclina* (*Nephrolepidina*) from Australia and New Zealand for parameters A+B and C. Lines between populations indicates that the differences between them are non-significant at the 95% level of confidence. The taxonomic location of the populations is indicated by symbols (see fig. 70).

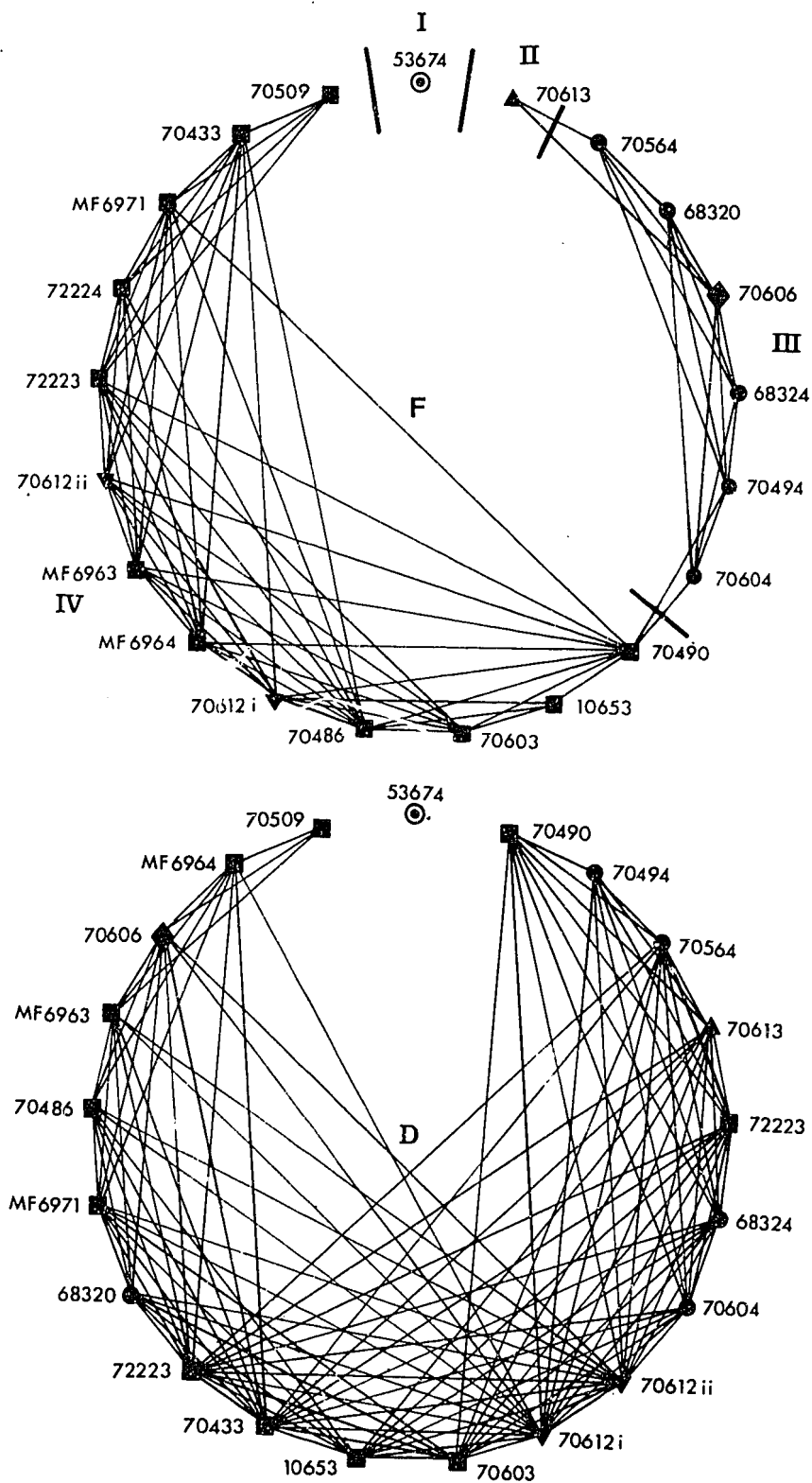


Fig. 73. Results of t-test between populations of *Lepidocyclina* (*Nephrolepidina*) from Australia and New Zealand for parameters F and D. Lines between populations indicates that the differences between them are non-significant at the 95% level of confidence. The taxonomic location of the populations is indicated by symbols (see fig. 70).

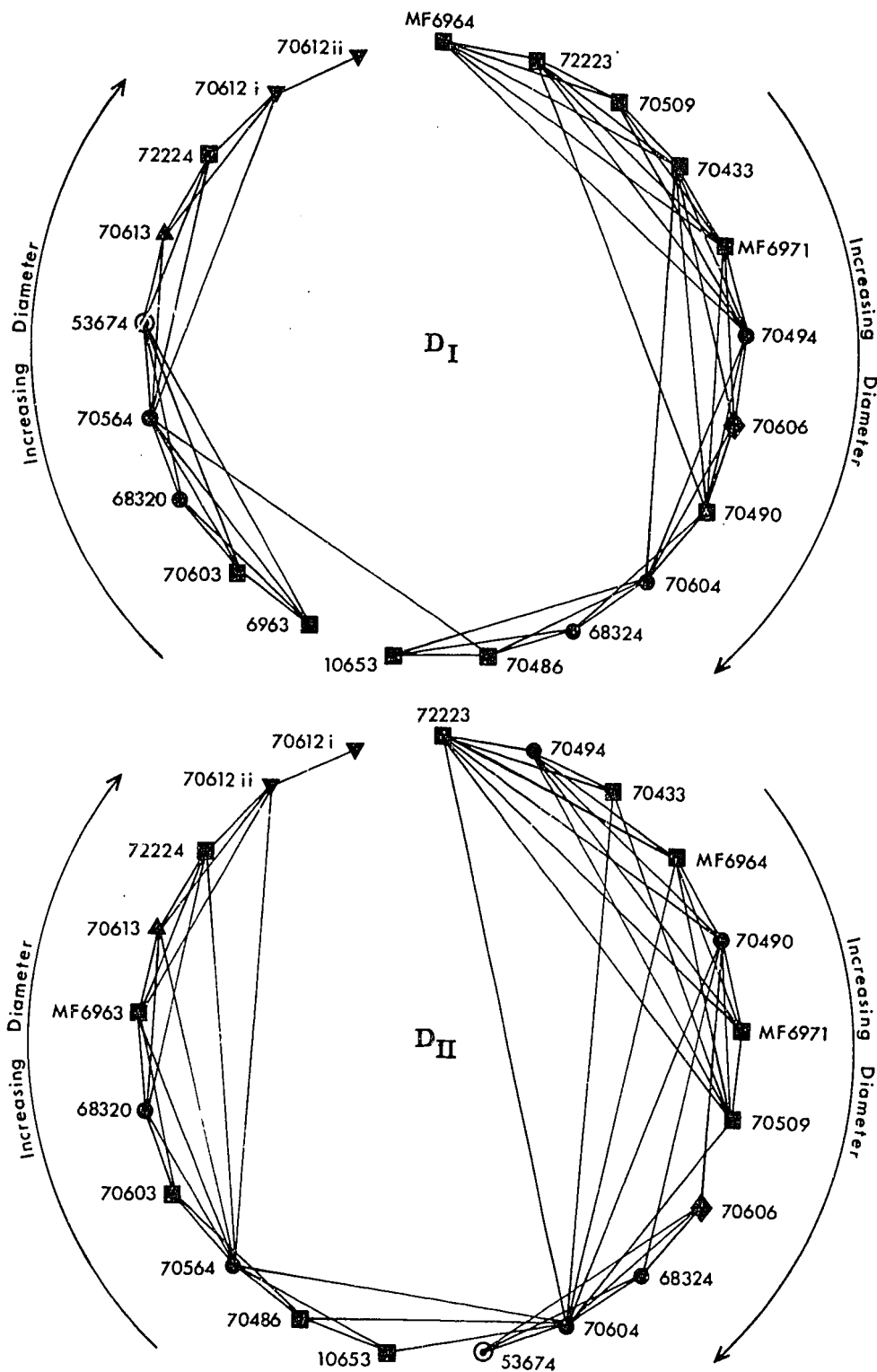


Fig. 74. Results of t-test between populations of Lepidocyclina (Nephrolepidina) from Australia and New Zealand for parameters D_I and D_{II} . Lines between populations indicate that the differences between them are non-significant at the 95% level of confidence. The taxonomic location of the population is indicated by symbols (see fig. 70).

68320	pc	Spc ₄₊₅	D _I	N	68324	pc	Spc ₄₊₅	D _I	N	70509	pc	Spc ₄₊₅	D _I	N
pc	-	-	-		pc	-	-	-		pc	-	-	-	
Spc ₄₊₅	-0.241	-	-	38	Spc ₄₊₅	-0.364	-	-	68	Spc ₄₊₅	-0.592	-	-	39
D _I	-0.417	0.357	-		D _I	-0.585	0.323	-		D _I	-0.525	0.574	-	
Log D _I	-0.419	0.374	0.993		Log D _I	-0.624	0.362	0.987		Log D _I	-0.544	0.601	0.991	
70564	pc	Spc ₄₊₅	D _I	N	70604	pc	Spc ₄₊₅	D _I	N	70606	pc	Spc ₄₊₅	D _I	N
pc	-	-	-		pc	-	-	-		pc	-	-	-	
Spc ₄₊₅	-0.266	-	-	8	Spc ₄₊₅	-0.388	-	-	18	Spc ₄₊₅	-0.284	-	-	15
D _I	-0.567	0.454	-		D _I	-0.702	0.193	-		D _I	-0.493	0.372	-	
Log D _I	-0.590	0.472	0.999		Log D _I	-0.750	0.248	0.991		Log D _I	-0.496	0.340	0.995	
70611	pc	Spc ₄₊₅	D _I	N	MF6966	pc	Spc ₄₊₅	D _I	N	MF6971	pc	Spc ₄₊₅	D _I	N
pc	-	-	-		pc	-	-	-		pc	-	-	-	
Spc ₄₊₅	-0.191	-	-	39	Spc ₄₊₅	-0.656	-	-	20	Spc ₄₊₅	-0.502	-	-	41
D _I	-0.604	0.415	-		D _I	-0.786	0.711	-		D _I	-0.765	0.559	-	
Log D _I	-0.609	0.432	0.994		Log D _I	-0.814	0.720	0.985		Log D _I	-0.786	0.537	0.983	

Table 1. Coefficients of correlation between parameters pc, Spc₄₊₅, D_I and Log D_I for populations of Cycloclypeus (C.) eidae and C. (C.) carpenteri from Australia and New Zealand.

Pop. No.	pc	Spc ₄₊₅
68320	$Y = 27.896 - 2.903X$	$Y = - 2.789 + 0.016X$
68324	$Y = 46.871 - 6.852X$	$Y = - 5.606 + 2.429X$
70509	$Y = 30.769 - 4.124X$	$Y = -34.505 + 8.598X$
70564	$Y = 60.000 - 9.614X$	$Y = - 5.220 + 2.241X$
70604	$Y = 50.881 - 7.761X$	$Y = - 5.514 + 2.647X$
70606	$Y = 31.651 - 3.598X$	$Y = - 7.701 + 3.116X$
70611	$Y = 34.541 - 4.722X$	$Y = -13.569 + 4.254X$
MF6966	$Y = 53.970 - 8.359X$	$Y = -15.166 + 4.560X$
MF6971	$Y = 38.921 - 5.531X$	$Y = -13.548 + 4.377X$

Table 2. Equations for the Regression Lines given in figs. 10 and 11.

53674	N _o	S ₄₊₅	D _I	N	70611	N _o	S ₄₊₅	D _I	N
N _o	-	-	-		N _o	-	-	-	
S ₄₊₅	-0.617	-	-	35	S ₄₊₅	-0.813	-	-	32
D _I	-0.310	0.346	-		D _I	-0.302	0.226	-	
D _{II}	0.360	0.028	0.556		D _{II}	-0.352	0.348	0.593	

Table 3. Coefficients of correlation between parameters N_o, S₄₊₅, D_I and D_{II} for populations of Heterostegina borneensis from Australia and New Zealand.

70495	X	Y	Z	D _I	D _{II}	N
X	-	-	-	-	-	5
Y	-0.802	-	-	-	-	
Z	0.535	-0.250	-	-	-	
D _I	0.224	-0.236	-0.170	-	-	
D _{II}	-0.435	0.576	-0.764	0.109	-	
D	-0.453	0.627	-0.550	-0.450	0.835	
70564	X	Y	Z	D _I	D _{II}	N
X	-	-	-	-	-	8
Y	-0.361	-	-	-	-	
Z	-0.447	0.592	-	-	-	
D _I	0.536	-0.587	-0.635	-	-	
D _{II}	0.407	-0.215	-0.796	0.284	-	
D	0.009	0.140	-0.397	-0.374	0.775	

Table 4. Coefficients of correlation between parameters X, Y, Z, D_I, D_{II} and D for populations of Miogypsina (Miogypsinoides) dehaarti from Australia.

68324	r	V	X	D _I	D _{II}	N	70603	r	V	X	D _I	D _{II}	N
r	-	-	-	-	-	6	r	-	-	-	-	-	13
V	-0.534	-	-	-	-		V	0.163	-	-	-	-	
X	-0.613	0.807	-	-	-		X	-0.096	-0.465	-	-	-	
D _I	-0.512	0.349	0.334	-	-		D _I	0.245	0.162	0.427	-	-	
D _{II}	-0.745	0.924	0.809	0.573	-		D _{II}	0.258	-0.034	0.481	0.531	-	
D	-0.623	0.931	0.813	0.181	0.909		D	0.068	-0.204	0.089	-0.382	0.576	
70604	r	V	X	D _I	D _{II}		70613	r	V	X	D _I	D _{II}	N
r	-	-	-	-	-	33	r	-	-	-	-	-	4
V	0.392	-	-	-	-		V	-0.938	-	-	-	-	
X	-0.120	-0.624	-	-	-		X	0.295	-0.523	-	-	-	
D _I	0.047	-0.099	0.048	-	-		D _I	0.260	-0.449	0.009	-	-	
D _{II}	-0.043	0.041	0.243	-0.127	-		D _{II}	-0.140	0.306	-0.944	0.315	-	
D	-0.039	0.129	0.100	-0.740	0.735		D	-0.355	0.635	-0.943	-0.341	0.783	
			70614	r	V	X	D _I	D _{II}	N				
			r	-	-	-	-	-	18				
			V	0.541	-	-	-	-					
			X	0.200	-0.392	-	-	-					
			D _I	0.496	0.446	0.185	-	-					
			D _{II}	0.503	0.562	0.279	0.755	-					
			D	-0.212	0.040	0.012	-0.585	0.078					

Table 5. Coefficients of correlation between parameters , V, X, D_I, D_{II} and D for populations of Miogyopsina (Miogyopsina) gloulina, M. (M.) intermedia and M. (Lepidosemicyclina) thecidaeformis from Australia and New Zealand.

53674	A	LA	D	D _I	N	68318	A	LA	D	D _I	N
A	-	-	-	-	26	A	-	-	-	-	18
LA	-0.916	-	-	-		LA	-0.979	-	-	-	
D	-0.048	-0.031	-	-		D	0.106	-0.145	-	-	
D _I	-0.102	0.112	-0.570	-		D _I	0.143	-0.156	-0.816	-	
D _{II}	-0.149	0.101	-0.046	0.841		D _{II}	0.422	-0.476	-0.269	0.725	

Table 6. Coefficients of correlation between parameters A, LA, D, D_I and D_{II} for populations of Lepidocyclina (Eulepidina) ephippioides and L. (E.) badjirraensis from Australia.

10653	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.009	1.000	-	-	-	-	-	-	-	-
D _I	-0.235	0.122	1.000	-	-	-	-	-	-	-
D _{II}	-0.053	0.354	0.115	1.000	-	-	-	-	-	-
dc	0.185	0.524	0.156	0.179	1.000	-	-	-	-	-
E	0.147	0.597	0.144	0.205	0.815	1.000	-	-	-	-
A	-0.026	0.254	0.007	0.198	0.426	0.634	1.000	-	-	-
B	-0.158	0.555	-0.134	0.142	0.303	0.199	-0.123	1.000	-	-
A+B	-0.153	0.638	-0.112	0.167	0.524	0.561	0.505	0.794	1.000	-
D	0.306	0.340	-0.426	0.171	0.561	0.496	0.321	0.137	0.316	1.000
70494	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.203	1.000	-	-	-	-	-	-	-	-
D _I	-0.470	0.511	1.000	-	-	-	-	-	-	-
D _{II}	-0.395	0.621	0.941	1.000	-	-	-	-	-	-
dc	-0.050	0.672	0.340	0.527	1.000	-	-	-	-	-
E	-0.041	0.713	0.374	0.594	0.973	1.000	-	-	-	-
A	0.092	0.271	-0.362	0.541	0.805	0.650	1.000	-	-	-
B	0.329	0.548	0.066	0.110	0.310	0.344	0.121	1.000	-	-
A+B	0.222	0.710	-0.243	0.456	0.747	0.796	0.498	0.705	1.000	-
D	0.110	0.479	0.153	0.466	0.633	0.752	0.421	0.486	0.692	1.000
706121	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.373	1.000	-	-	-	-	-	-	-	-
D _I	-0.027	0.376	1.000	-	-	-	-	-	-	-
D _{II}	-0.484	0.373	0.462	1.000	-	-	-	-	-	-
dc	-0.372	0.299	-0.002	0.423	1.000	-	-	-	-	-
E	-0.495	0.531	0.089	0.437	0.921	1.000	-	-	-	-
A	-0.537	0.539	0.143	0.415	0.901	0.996	1.000	-	-	-
B	-0.308	0.539	0.014	0.094	0.141	0.349	0.302	1.000	-	-
A+B	-0.510	0.667	0.090	0.291	0.905	0.792	0.769	0.942	1.000	-
D	-0.394	0.065	-0.566	0.434	0.559	0.478	0.407	0.007	0.289	1.000
53674	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.154	1.000	-	-	-	-	-	-	-	-
D _I	0.199	0.207	1.000	-	-	-	-	-	-	-
D _{II}	0.317	0.248	0.766	1.000	-	-	-	-	-	-
dc	0.147	0.339	0.331	0.345	1.000	-	-	-	-	-
E	0.224	0.219	0.319	0.350	0.979	1.000	-	-	-	-
A	-0.006	0.056	0.051	0.111	0.502	0.496	1.000	-	-	-
B	-0.152	0.121	0.103	0.277	0.200	0.170	0.428	1.000	-	-
A+B	-0.129	0.073	0.099	0.256	0.345	0.339	0.710	0.940	1.000	-
D	0.118	0.022	-0.465	0.175	-0.112	0.114	0.105	0.226	0.215	1.000
70559	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.012	1.000	-	-	-	-	-	-	-	-
D _I	-0.299	0.097	1.000	-	-	-	-	-	-	-
D _{II}	-0.195	0.517	0.639	1.000	-	-	-	-	-	-
dc	-0.139	0.496	-0.097	0.470	1.000	-	-	-	-	-
E	-0.331	0.409	-0.020	0.525	0.867	1.000	-	-	-	-
A	-0.170	0.547	-0.007	0.520	0.885	0.974	1.000	-	-	-
B	-0.088	0.385	-0.104	0.337	0.132	0.077	0.150	1.000	-	-
A+B	-0.179	0.624	-0.098	0.455	0.601	0.709	0.602	0.686	1.000	-
D	0.092	0.572	-0.250	0.514	0.797	0.752	0.816	0.220	0.729	1.000
70613	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.040	1.000	-	-	-	-	-	-	-	-
D _I	0.255	0.232	1.000	-	-	-	-	-	-	-
D _{II}	0.200	0.233	0.678	1.000	-	-	-	-	-	-
dc	-0.041	0.027	-0.358	0.175	1.000	-	-	-	-	-
E	-0.011	0.005	-0.239	0.322	0.952	1.000	-	-	-	-
A	0.034	0.014	-0.149	0.420	0.916	0.967	1.000	-	-	-
B	0.034	-0.130	0.246	0.255	0.143	0.271	0.319	1.000	-	-
A+B	0.041	-0.087	0.116	0.392	0.556	0.674	0.725	0.884	1.000	-
D	-0.097	0.017	-0.440	0.342	0.663	0.693	0.673	-0.046	0.298	1.000
60320	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.024	1.000	-	-	-	-	-	-	-	-
D _I	0.238	0.342	1.000	-	-	-	-	-	-	-
D _{II}	0.291	0.332	0.875	1.000	-	-	-	-	-	-
dc	0.311	0.179	-0.085	0.219	1.000	-	-	-	-	-
E	0.239	0.142	0.064	0.378	0.740	1.000	-	-	-	-
A	0.374	0.119	0.449	0.382	0.643	0.675	1.000	-	-	-
B	-0.102	0.105	0.057	0.265	0.315	0.297	0.328	1.000	-	-
A+B	0.264	0.191	0.465	0.393	0.606	0.557	0.746	0.874	1.000	-
D	0.111	0.090	-0.264	0.233	0.761	0.670	0.630	0.415	0.441	1.000
70564	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.150	1.000	-	-	-	-	-	-	-	-
D _I	0.366	0.480	1.000	-	-	-	-	-	-	-
D _{II}	0.471	0.467	0.748	1.000	-	-	-	-	-	-
dc	0.172	0.382	0.294	0.469	1.000	-	-	-	-	-
E	0.196	0.340	0.342	0.514	0.962	1.000	-	-	-	-
A	0.151	0.350	0.332	0.513	0.944	0.978	1.000	-	-	-
B	0.442	0.360	0.416	0.498	0.526	0.578	0.535	1.000	-	-
A+B	0.350	0.405	0.430	0.576	0.821	0.872	0.857	0.894	1.000	-
D	0.344	0.051	-0.019	0.276	0.536	0.551	0.557	0.270	0.460	1.000
72223	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.480	1.000	-	-	-	-	-	-	-	-
D _I	-0.080	0.173	1.000	-	-	-	-	-	-	-
D _{II}	0.081	0.112	0.931	1.000	-	-	-	-	-	-
dc	-0.083	0.333	0.353	0.420	1.000	-	-	-	-	-
E	-0.018	0.515	0.357	0.423	0.908	1.000	-	-	-	-
A	0.000	0.199	-0.027	0.134	0.884	0.823	1.000	-	-	-
B	0.446	0.507	0.031	0.252	0.336	0.610	0.497	1.000	-	-
A+B	0.277	0.421	0.005	0.228	0.681	0.818	0.643	0.805	1.000	-
D	0.478	-0.128	-0.307	0.057	0.072	0.090	0.316	0.585	0.553	1.000
60324	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.000	1.000	-	-	-	-	-	-	-	-
D _I	-0.116	0.454	0.906	1.000	-	-	-	-	-	-
D _{II}	0.145	0.301	0.341	0.507	1.000	-	-	-	-	-
dc	0.113	0.448	0.462	0.459	0.332	1.000	-	-	-	-
E	-0.016	0.410	0.411	0.450	0.779	0.874	1.000	-	-	-
A	0.194	0.252	0.121	0.129	0.403	0.316	0.351	1.000	-	-
B	0.125	0.391	0.304	0.134	0.625	0.606	0.777	0.662	1.000	-
A+B	0.261	-0.005	-0.012	0.405	0.407	0.287	0.162	0.061	0.129	1.000
70603	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.069	1.000	-	-	-	-	-	-	-	-
D _I	-0.221	0.115	0.758	1.000	-	-	-	-	-	-
D _{II}	-0.372	0.252	-0.458	0.051	1.000	-	-	-	-	-
dc	-0.323	0.248	-0.494	0.053	0.931	1.000	-	-	-	-
E	-0.334	0.269	-0.451	0.034	0.868	0.916	1.000	-	-	-
A	-0.044	0.154	-0.390	-0.135	0.560	0.625	0.593	1.000	-	-
B	-0.170	0.239	0.471	-0.052	0.005	0.868	0.903	0.885	1.000	-
A+B	-0.150	0.198	-0.593	0.058	0.716	0.768	0.656	0.370	0.580	1.000
72224	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	0.279	1.000	-	-	-	-	-	-	-	-
D _I	-0.440	-0.340	1.000	-	-	-	-	-	-	-
D _{II}	-0.671	-0.210	0.869	1.000	-	-	-	-	-	-
dc	0.407	0.376	-0.690	-0.432	1.000	-	-	-	-	-
E	0.334	0.490	-0.431	-0.063	0.821	1.000	-	-	-	-
A	0.238	0.353	-0.292	0.085	0.757	0.973	1.000	-	-	-
B	-0.055	0.291	-0.098	0.041	0.299	0.299	0.322	1.000	-	-
A+B	0.173	0.393	-0.232	0.076	0.611	0.755	0.786	0.639	1.000	-
D	0.102	0.316	-0.593	-0.139	0.677	0.675	0.639	0.291	0.558	1.000
70433	F	C	D _I	D _{II}	dc	E	A	B	A+B	D
F	1.000	-	-	-	-	-	-	-	-	-
C	-0.159	1.000	-	-	-	-	-	-	-	-
D _I	-0.215	-0.251	1.000	-	-	-	-	-	-	-
D _{II}	-0.501	0.340	0.629	1.000	-	-	-	-	-	-
dc	-0.287	0.364	-0.625	0.616	1.000	-	-	-	-	-
E	-0.332	0.302	-0.576	-0.034	0.963	1.000	-	-	-	-
A	-0.329	0.250	-0.534	0.001	0.963	0.990	1.000	-	-	-
B	-0.074	0.006	-0.209	0.349	0.334	0.331	0.316	1.000	-	-
A+B	-0.209	0.536	-0.566	0.161	0.900	0.915	0.916	0.670	1.000	-
D	-0.176	0.694	-0.644	0.17						

BASIC DATA FOR BIOMETRIC STUDY ON SELECTED
LARGER FORAMINIFERIDS FROM AUSTRALIA AND NEW ZEALAND

CYCLOCYPEUS EIDAE

SAMPLE 68320 (CB3)

SPECIMEN	PL	SPC4+5	DI	LOG DI
1	14.	6.	146.	4.9972
2	14.	7.	111.	4.7095
3	18.	4.	74.	4.3041
6	16.	8.	130.	4.8675
8	11.	7.	102.	4.6250
10	16.	5.	93.	4.5326
11	13.	4.	74.	4.3041
12	14.	7.	111.	4.7095
13	13.	5.	146.	4.9972
14	16.	6.	83.	4.4188
15	17.	7.	93.	4.5326
16	10.	5.	130.	4.8675
17	15.	5.	65.	4.1744
18	16.	7.	130.	4.8675
19	13.	6.	111.	4.7095
20	13.	7.	146.	4.9972
21	16.	5.	83.	4.4188
22	14.	5.	148.	4.9972
23	13.	6.	102.	4.6250
24	12.	6.	139.	4.9345
25	14.	7.	157.	5.0562
26	15.	5.	111.	4.7095
27	14.	7.	111.	4.7095
28	13.	4.	102.	4.6250
30	14.	5.	120.	4.7375
31	14.	7.	83.	4.4188
32	14.	5.	130.	4.8675
33	14.	6.	93.	4.5326
34	13.	6.	148.	4.9972
35	14.	7.	139.	4.9345
36	15.	5.	120.	4.7875
38	14.	7.	102.	4.6250
39	16.	4.	93.	4.5326
40	17.	4.	83.	4.4188
41	13.	6.	74.	4.3041
42	15.	5.	111.	4.7095
43	17.	3.	83.	4.4188
44	13.	6.	157.	5.0562

NUMBER OF SPECIMENS = 30

CYCLOCYPEUS EIDAE

SAMPLE 68324 (CB4)

SPECIMEN	PL	SPC4+5	DI	LOG DI
1	12.	7.	123.	4.8122
2	16.	5.	100.	4.6052
3	14.	6.	118.	4.7707
5	11.	9.	123.	4.8122
6	15.	4.	123.	4.8122
7	15.	5.	109.	4.6913
8	13.	6.	127.	4.8442
9	15.	9.	132.	4.8828
10	17.	5.	91.	4.5109
11	16.	6.	114.	4.7362
12	15.	6.	95.	4.5539

13	12.	5.	159.	5.0680
14	16.	5.	109.	4.6913
16	14.	5.	127.	4.8442
17	18.	5.	86.	4.4543
18	16.	5.	110.	4.7707
20	21.	4.	75.	4.2905
21	14.	4.	109.	4.6913
22	15.	6.	100.	4.6052
23	12.	4.	114.	4.7362
24	15.	5.	100.	4.6052
25	16.	5.	95.	4.5539
26	12.	6.	91.	4.5109
27	14.	7.	127.	4.8442
28	16.	4.	77.	4.3738
29	19.	4.	68.	4.2195
30	19.	7.	114.	4.7362
31	14.	5.	100.	4.6052
32	17.	7.	95.	4.5539
33	17.	6.	110.	4.7707
34	16.	7.	114.	4.7362
35	13.	6.	141.	4.9488
36	16.	5.	114.	4.7362
37	12.	7.	136.	4.9127
38	14.	7.	132.	4.8828
40	14.	6.	95.	4.5539
41	14.	6.	123.	4.8122
42	10.	8.	127.	4.8442
43	13.	5.	177.	5.1761
44	15.	4.	95.	4.5539
45	14.	7.	105.	4.6540
46	14.	7.	118.	4.7707
47	14.	7.	132.	4.8828
48	18.	5.	91.	4.5109
49	14.	6.	91.	4.5109
50	15.	6.	110.	4.7707
51	13.	8.	127.	4.8442
52	14.	6.	164.	5.0999
53	12.	6.	123.	4.8122
54	15.	4.	86.	4.4543
57	15.	3.	109.	4.6913
58	13.	6.	127.	4.8442
59	13.	8.	127.	4.8442
60	13.	6.	100.	4.6052
61	16.	6.	82.	4.4067
62	12.	5.	95.	4.5539
63	21.	4.	59.	4.0775
64	14.	7.	109.	4.6913
65	15.	6.	110.	4.7707
66	14.	8.	100.	4.6052
68	15.	7.	100.	4.6052
69	18.	5.	95.	4.5539
70	14.	3.	132.	4.8828
71	15.	6.	118.	4.7707
72	14.	6.	105.	4.6540
73	17.	6.	91.	4.5109
74	15.	6.	109.	4.6913
76	13.	5.	100.	4.6052

NUMBER OF SPECIMENS = 68

CYCLOCYPEUS CARPENTERI

SAMPLE 70509 (CB9)

SPECIMEN PC SPC4+5 DT LOG UI

3	9.	16.	194.	5.2679
5	8.	12.	305.	5.7203
7	9.	16.	232.	5.4467
8	9.	9.	250.	5.5215
9	11.	5.	166.	5.1120
10	10.	7.	139.	4.9345
11	7.	17.	259.	5.5568
12	8.	16.	232.	5.4467
14	10.	8.	166.	5.1120
15	7.	10.	166.	5.1120
16	8.	16.	240.	5.4806
18	6.	15.	232.	5.4467
19	11.	6.	139.	4.9345
20	7.	13.	212.	5.3566
21	9.	17.	250.	5.5215
24	8.	17.	212.	5.3566
25	8.	9.	157.	5.0562
26	8.	10.	278.	5.6276
27	13.	6.	129.	4.8598
29	7.	18.	204.	5.3181
30	13.	9.	129.	4.8598
31	10.	5.	120.	4.7875
32	12.	3.	139.	4.9345
34	10.	7.	222.	5.4027
35	9.	9.	276.	5.6276
36	7.	9.	240.	5.4806
37	8.	6.	232.	5.4467
38	11.	14.	259.	5.5568
39	12.	7.	129.	4.8598
43	8.	11.	232.	5.4467
44	7.	14.	204.	5.3181
45	7.	12.	268.	5.5910
46	6.	11.	166.	5.1120
47	11.	6.	93.	4.5326
48	10.	7.	129.	4.8598
49	8.	11.	222.	5.4027
50	6.	16.	222.	5.4027
51	11.	9.	129.	4.8598
52	16.	7.	185.	5.2204

NUMBER OF SPECIMENS = 39

CYCLOCYPEUS EIDAE

SAMPLE 70564 (CB10)

SPECIMEN	PC	SPC4+5	DI	LOG DI
3	15.	6.	93.	4.5326
4	13.	5.	111.	4.7095
5	17.	6.	120.	4.7875
6	13.	5.	120.	4.7875
7	18.	5.	93.	4.5326
8	15.	5.	102.	4.6250
9	19.	4.	83.	4.4188
11	15.	5.	93.	4.5326

NUMBER OF SPECIMENS = 8

CYCLOCYPEUS EIDAE

SAMPLE 70604 (RG2)

SPECIMEN	PC	SPC4+5	DI	LOG DI
1	15.	10.	102.	4.6250
2	11.	6.	139.	4.9345
3	10.	9.	185.	5.2204
4	9.	7.	139.	4.9345
5	10.	8.	166.	5.1120

7	14.	7.	148.	4.9972
8	17.	3.	102.	4.6250
9	13.	7.	148.	4.9972
10	11.	11.	120.	4.7875
11	11.	5.	222.	5.4027
12	13.	5.	93.	4.5326
13	13.	11.	148.	4.9972
14	13.	8.	139.	4.9345
15	15.	4.	102.	4.6250
16	13.	6.	111.	4.7095
17	14.	7.	120.	4.7875
18	11.	7.	170.	5.1705
20	11.	13.	160.	5.1120

NUMBER OF SPECIMENS = 10

CYCLOCLYPEUS ETDAE

SAMPLE 70606 (RG3)

SPECIMEN	PC	SPC4+5	DI	LOG DI
1	15.	6.	139.	4.9345
2	13.	8.	148.	4.9972
3	15.	8.	93.	4.5326
4	16.	7.	23.	4.4188
5	14.	9.	129.	4.8598
6	16.	6.	111.	4.7095
8	13.	6.	111.	4.7095
9	13.	6.	111.	4.7095
10	15.	5.	111.	4.7095
11	14.	7.	120.	4.7875
12	15.	8.	111.	4.7095
13	15.	4.	105.	4.6540
14	16.	7.	111.	4.7095
16	14.	8.	129.	4.8598
17	15.	7.	120.	4.7875

NUMBER OF SPECIMENS = 15

CYCLOCLYPEUS CARPENTERI

SAMPLE 70611 (N21)

SPECIMEN	PC	SPC4+5	DI	LOG DI
2	12.	6.	111.	4.7095
3	12.	4.	129.	4.8598
4	13.	7.	111.	4.7095
6	13.	6.	129.	4.8598
8	11.	8.	157.	5.0562
9	11.	9.	129.	4.8598
11	11.	5.	148.	4.9972
12	13.	7.	120.	4.7875
13	13.	6.	93.	4.5326
14	12.	8.	129.	4.8598
15	13.	6.	111.	4.7095
16	9.	10.	129.	4.8598
17	12.	11.	139.	4.9345
18	13.	6.	111.	4.7095
19	11.	10.	157.	5.0562
20	11.	9.	139.	4.9345
21	11.	8.	139.	4.9345
22	12.	6.	120.	4.7875
23	10.	8.	157.	5.0562
25	10.	6.	148.	4.9972
27	9.	7.	157.	5.0562
30	12.	5.	102.	4.6250
33	10.	7.	120.	4.7875
35	14.	6.	93.	4.5326

38	10.	6.	157.	5.0562
39	13.	10.	129.	4.8598
41	13.	5.	83.	4.4188
42	13.	4.	102.	4.6250
46	9.	7.	160.	5.1120
47	9.	6.	120.	4.7875
50	13.	6.	120.	4.7875
51	13.	9.	129.	4.8598
52	12.	9.	160.	5.0752
53	11.	6.	130.	4.8675
54	13.	7.	135.	4.9053
55	12.	7.	125.	4.8283
56	11.	5.	170.	5.1358
57	10.	8.	150.	5.0106
58	11.	10.	185.	5.2204

NUMBER OF SPECIMENS = 39

CYCLOCYPEUS EIDAE

SAMPLE MF6966 (CP13)

SPECIMEN	PC	SPC4+5	DI	LOG DI
1	13.	8.	150.	5.0626
2	12.	9.	150.	5.0626
3	15.	6.	120.	4.7875
5	12.	6.	102.	4.6250
6	14.	5.	120.	4.7875
7	12.	7.	139.	4.9345
8	12.	9.	176.	5.1705
9	10.	7.	148.	4.9972
10	10.	8.	176.	5.1705
11	12.	8.	148.	4.9972
12	14.	7.	160.	5.1120
13	14.	8.	129.	4.8598
14	14.	7.	129.	4.8598
15	16.	6.	102.	4.6250
17	15.	6.	120.	4.7875
20	13.	7.	148.	4.9972
22	20.	4.	65.	4.1744
23	13.	6.	129.	4.8598
25	11.	8.	139.	4.9345
26	13.	10.	129.	4.8598

NUMBER OF SPECIMENS = 20

CYCLOCYPEUS CARPENTERI

SAMPLE MF6971 (CB14)

SPECIMEN	PC	SPC4+5	DI	LOG DI
2	10.	9.	195.	5.2730
3	13.	8.	150.	5.0106
5	13.	7.	86.	4.4543
6	12.	7.	116.	4.7707
7	13.	7.	114.	4.7362
8	11.	8.	145.	4.9767
9	9.	10.	183.	5.2095
10	12.	5.	191.	5.2523
11	14.	7.	114.	4.7362
13	9.	10.	182.	5.2040
14	11.	9.	109.	4.6913
15	12.	9.	127.	4.8442
16	12.	7.	114.	4.7362
19	8.	15.	250.	5.5215
20	13.	7.	164.	5.0999
21	10.	10.	145.	4.9767
22	13.	6.	132.	4.6828

23	7.	9.	227.	5.4250
24	11.	10.	177.	5.1761
25	14.	7.	114.	4.7362
26	11.	11.	155.	5.0430
28	11.	9.	141.	4.9488
29	7.	9.	241.	5.4848
30	12.	8.	159.	5.0689
31	7.	4.	227.	5.4250
32	11.	10.	260.	5.5010
33	13.	6.	116.	4.7707
34	9.	7.	156.	5.0499
36	12.	11.	136.	4.9127
37	14.	5.	127.	4.8442
38	12.	9.	136.	4.9127
39	8.	13.	341.	5.0319
40	12.	8.	159.	5.0689
41	14.	9.	118.	4.7707
42	11.	8.	141.	4.9488
44	10.	5.	150.	5.0106
45	13.	7.	100.	4.6052
46	9.	10.	205.	5.3230
47	7.	13.	218.	5.3845
48	11.	6.	159.	5.0689
50	8.	15.	255.	5.5413

NUMBER OF SPECIMENS = 41

HETEROSTEGINA BURNEENSIS
SAMPLE, 53674 (CR1)

SPECIMEN	NO	54+5	D1	011
1	1.	4.	127.	73.
2	1.	6.	164.	100.
3	1.	4.	136.	91.
4	1.	5.	182.	118.
5	1.	6.	182.	91.
6	1.	7.	114.	77.
7	1.	6.	136.	91.
8	2.	5.	164.	91.
9	2.	4.	136.	91.
10	2.	3.	105.	82.
11	1.	4.	116.	86.
15	2.	4.	136.	95.
17	1.	4.	132.	91.
19	1.	4.	123.	77.
20	2.	4.	118.	68.
21	1.	5.	159.	91.
22	1.	5.	150.	100.
23	2.	3.	155.	127.
24	2.	3.	136.	73.
25	1.	5.	191.	95.
26	1.	5.	145.	105.
27	1.	5.	164.	91.
28	1.	5.	159.	87.
29	1.	6.	182.	73.
30	1.	5.	141.	87.
31	2.	5.	114.	91.
32	2.	3.	118.	91.
33	1.	5.	114.	73.
34	1.	6.	182.	123.
35	1.	4.	100.	59.
36	1.	7.	109.	73.
37	1.	6.	132.	87.
38	2.	3.	95.	87.

39 1. 5. 150. 82.
41 1. 6. 130. 91.

NUMBER OF SPECIMENS = 35

HETEROSTEGINA HORNEENSIS

SAMPLE 70611 (N21)

SPECIMEN	NO	S4+5	D1	DII
1	1.	5.	95.	55.
2	3.	2.	73.	50.
3	2.	3.	73.	55.
4	1.	7.	82.	55.
5	1.	5.	86.	68.
6	1.	5.	109.	77.
7	3.	2.	91.	77.
10	1.	7.	73.	91.
11	1.	5.	73.	50.
12	2.	4.	86.	59.
13	1.	4.	95.	77.
15	1.	5.	109.	86.
16	1.	6.	105.	73.
17	1.	4.	77.	68.
18	2.	3.	86.	68.
19	1.	5.	86.	77.
20	1.	5.	95.	64.
21	1.	5.	105.	82.
22	1.	5.	109.	91.
23	1.	5.	77.	73.
24	2.	4.	86.	73.
25	1.	4.	86.	73.
26	2.	3.	73.	45.
27	1.	5.	82.	64.
31	3.	2.	91.	68.
33	1.	5.	100.	59.
34	1.	5.	114.	77.
35	2.	5.	100.	73.
37	1.	4.	118.	82.
38	2.	3.	73.	45.
39	0.	6.	91.	77.
41	1.	5.	91.	73.

NUMBER OF SPECIMENS = 32

MIOGYPSINA (MIOGYPSINOIDES) DEHAARTI

SAMPLE 70495 (CB8)

SPECIMEN	X	Y	Z	D1	DII	D
1	7.	2.	4.	170.	124.	.7045
2	6.	2.	4.	144.	97.	.6736
3	8.	1.	4.	162.	95.	.5864
4	7.	2.	4.	132.	126.	.9545
5	6.	2.	3.	160.	149.	.9313

NUMBER OF SPECIMENS = 5

MIOGYPSINA (MIOGYPSINOIDES) DEHAARTI

SAMPLE 70564 (CB10)

SPECIMEN	X	Y	Z	D1	DII	D
1	7.	2.	4.	188.	165.	.8777
3	7.	1.	4.	192.	203.	1.0573
4	6.	2.	5.	103.	103.	1.0000
5	6.	2.	5.	159.	94.	.5912
6	6.	2.	4.	138.	203.	1.4710
7	6.	3.	5.	147.	132.	.8980
8	6.	2.	4.	162.	203.	1.2531
9	6.	1.	4.	203.	127.	.6256

NUMBER OF SPECIMENS = 6

MIOGYPSINA (LEPIDOSEMICYCLINA) THECIDEAEFORMIS

SAMPLE 68324 (CB4)

SPECIMEN	ALPHA	BETA	GAMMA	X	DI	DI I	D	V
3	25.	264.	36.	5.	118.	87.	.7373	18.9394
5	21.	267.	20.	5.	105.	87.	.8286	15.7303
6	44.	279.	0.	7.	121.	137.	1.1322	31.5412
7	29.	290.	34.	6.	95.	82.	.8632	20.0000
8	21.	262.	13.	6.	121.	90.	.7438	16.0305
9	24.	282.	18.	5.	105.	79.	.7524	17.0213

NUMBER OF SPECIMENS = 6

MIOGYPSINA (LEPIDOSEMICYCLINA) THECIDEAEFORMIS

SAMPLE 70603 (BG1)

SPECIMEN	ALPHA	BETA	GAMMA	X	DI	DI I	D	V
3	36.	273.	32.	4.	102.	91.	.8922	26.3736
4	66.	279.	40.	5.	198.	143.	.7222	47.3118
5	92.	271.	84.	4.	195.	123.	.6308	67.8967
7	61.	250.	16.	3.	156.	83.	.5321	48.8000
8	57.	250.	-50.	4.	169.	112.	.6627	45.6000
9	62.	282.	-15.	5.	156.	91.	.5833	43.9716
10	49.	303.	-63.	6.	164.	136.	.6293	32.3432
11	95.	278.	-4.	3.	110.	81.	.7364	68.3453
12	44.	244.	118.	5.	175.	144.	.8229	36.0656
13	129.	287.	61.	4.	162.	116.	.7160	89.8955
14	26.	243.	42.	5.	155.	93.	.6000	21.3992
15	78.	244.	22.	4.	147.	135.	.9184	63.9344
16	38.	257.	30.	4.	137.	143.	1.0438	29.5720

NUMBER OF SPECIMENS = 13

MIOGYPSINA (LEPIDOSEMICYCLINA) THECIDEAEFORMIS

SAMPLE 70604 (BG2)

SPECIMEN	ALPHA	BETA	GAMMA	X	DI	DI I	D	V
1	26.	261.	14.	4.	134.	124.	.9254	19.9234
2	37.	270.	9.	6.	145.	142.	.9793	27.4074
3	85.	254.	36.	3.	127.	111.	.8740	66.9291
4	59.	270.	40.	4.	158.	118.	.7468	43.7037
5	68.	278.	33.	4.	165.	116.	.7030	48.9209
6	44.	277.	24.	5.	139.	127.	.9137	31.7690
7	64.	282.	47.	5.	164.	105.	.6402	45.3901
8	60.	256.	21.	4.	147.	102.	.6939	46.8750
9	103.	270.	42.	4.	139.	134.	.9640	76.2963
10	62.	255.	35.	4.	144.	141.	.9792	48.6275
11	25.	266.	12.	5.	138.	111.	.8043	18.7970
12	41.	244.	41.	5.	170.	111.	.6529	33.6066
13	75.	243.	30.	3.	152.	119.	.7829	61.7284
14	54.	260.	36.	5.	149.	118.	.7919	41.5385
15	19.	273.	27.	4.	154.	117.	.7597	13.9194
16	68.	257.	50.	4.	165.	89.	.5394	52.9183
17	17.	273.	41.	5.	142.	140.	.9859	12.4542
18	54.	250.	42.	5.	156.	151.	.9679	43.2000
19	47.	236.	24.	4.	184.	110.	.5978	39.8305
20	63.	272.	27.	4.	142.	109.	.7676	46.3235
21	26.	257.	18.	5.	144.	134.	.9306	20.2335
22	49.	268.	21.	5.	151.	122.	.8079	36.5672
23	43.	264.	1.	5.	153.	130.	.7104	32.5758
24	51.	294.	49.	6.	133.	127.	.9549	34.6939
25	57.	276.	8.	4.	140.	133.	.9500	41.3043
26	85.	250.	30.	3.	140.	133.	.9500	68.0000
27	96.	272.	35.	3.	148.	112.	.7568	70.5882
28	70.	252.	55.	4.	138.	140.	1.0145	55.5556

29	93.	276.	39.	4.	135.	149.	1.1037	67.3913
30	76.	272.	28.	4.	102.	110.	1.1667	55.8824
31	55.	261.	39.	4.	230.	124.	.5391	42.1456
32	29.	269.	30.	4.	135.	91.	.6741	21.5613
33	31.	268.	32.	5.	147.	123.	.8367	23.1343

NUMBER OF SPECIMENS = 33

MIOGYPSINA (MIOGYPSINA) GLOBULINA

SAMPLE 70613 (NZ4)

SPECIMEN	ALPHA	BETA	GAMMA	X	DI	DTI	D	V
6	63.	261.	-11.	3.	156.	146.	.9359	48.2759
7	39.	278.	28.	5.	139.	101.	.7266	28.0576
8	15.	268.	67.	4.	175.	135.	.7714	11.1940
9	36.	282.	13.	5.	180.	114.	.6333	25.5319

NUMBER OF SPECIMENS = 4

MIOGYPSINA (MIOGYPSINA) INTERMEDIA

SAMPLE 70614 (NZ5)

SPECIMEN	ALPHA	BETA	GAMMA	X	DI	DTI	D	V
2	92.	274.	62.	4.	179.	166.	.9274	67.1533
3	93.	277.	50.	4.	195.	192.	.9846	67.1480
4	65.	260.	22.	4.	130.	140.	1.0769	50.0000
5	70.	266.	21.	4.	121.	130.	1.0744	52.6316
6	65.	239.	16.	3.	221.	156.	.7059	54.3933
7	57.	241.	58.	3.	127.	114.	.8976	47.3029
8	42.	260.	25.	4.	114.	106.	.9298	32.3077
10	86.	263.	70.	5.	195.	195.	1.0000	65.3992
11	53.	268.	52.	6.	178.	162.	.9101	39.5522
12	115.	276.	50.	3.	155.	120.	.8323	83.3333
13	44.	281.	42.	5.	169.	140.	.8284	31.3167
14	136.	264.	87.	4.	245.	195.	.7959	103.0303
15	80.	268.	43.	4.	161.	160.	.9938	59.7015
18	51.	250.	45.	4.	185.	138.	.7459	40.0000
19	90.	243.	39.	3.	157.	177.	1.1274	74.0741
20	62.	241.	59.	4.	154.	142.	.9221	51.4523
21	75.	242.	60.	4.	209.	158.	.7560	61.9835
26	53.	248.	44.	5.	203.	171.	.8424	42.7419

NUMBER OF SPECIMENS = 18

LEPIDOCYCLINA (EULEPIDINA) EPHIPPIOIDES

SAMPLE 53674 (CB1)

SPECIMEN	DI	DTI	D	LA	A	E
1	405.	849.	2.0963	14.70	75.60	90.70
2	492.	962.	1.9553	15.90	80.00	91.20
4	435.	924.	2.1241	9.90	88.40	95.50
7	379.	848.	2.2375	16.50	75.00	87.50
8	470.	859.	1.8277	16.40	78.30	90.50
9	480.	851.	1.7729	7.30	88.50	96.20
11	419.	775.	1.8974	18.90	80.30	92.00
12	678.	947.	1.3968	13.90	87.40	97.90
13	622.	1032.	1.6592	22.70	71.40	85.30
14	678.	1157.	1.7065	16.70	77.40	95.80
15	400.	588.	1.4700	5.80	95.10	98.10
17	348.	631.	1.8132	17.40	86.40	90.00
18	541.	974.	1.8004	8.40	91.40	96.70
19	443.	820.	1.8510	9.10	92.40	98.30
20	703.	1159.	1.6486	17.80	76.40	87.30
21	404.	828.	2.0495	19.90	72.60	83.30
22	395.	711.	1.8000	19.70	72.60	93.10
23	434.	887.	2.0438	17.20	79.90	95.50
24	553.	939.	1.6980	14.50	82.80	94.70
25	468.	832.	1.7778	19.60	72.30	82.40

26	584.	1039.	1.7791	11.40	89.40	97.80
27	513.	855.	1.6667	18.70	74.70	90.60
28	374.	689.	1.8422	19.00	75.90	98.30
29	479.	868.	1.8121	8.80	90.40	97.50
31	408.	947.	2.3211	8.50	94.20	98.90
32	637.	1132.	1.7771	18.70	74.60	85.80

NUMBER OF SPECIMENS = 20

LEPIDOCYCLINA (EULEPIDINA) BADJIPRAENSTIS

SAMPLE 68318 (182)

SPECIMEN	DI	DII	D	LA	A	E
1	346.	636.	1.8382	2.20	96.50	0.00
2	364.	641.	1.7610	3.70	96.70	0.00
3	369.	654.	1.7724	5.10	95.20	0.00
4	282.	518.	1.8369	8.50	91.70	0.00
5	251.	436.	1.7371	27.10	64.90	0.00
6	316.	600.	1.8987	3.80	96.60	0.00
7	408.	632.	1.5490	17.10	80.20	0.00
8	276.	516.	1.8696	4.30	96.00	0.00
9	237.	434.	1.8312	10.60	89.90	0.00
10	282.	545.	1.9326	10.70	92.60	0.00
11	263.	513.	1.9506	14.10	83.10	0.00
12	226.	521.	2.3053	8.20	90.10	0.00
13	332.	612.	1.8434	11.10	86.30	0.00
14	218.	434.	1.9908	6.70	93.80	0.00
15	330.	598.	1.8121	5.60	96.00	0.00
16	596.	644.	1.0805	9.10	89.80	0.00
17	226.	585.	2.5885	7.70	89.60	0.00
18	226.	437.	1.9336	10.10	81.80	0.00

NUMBER OF SPECIMENS = 18

LEPIDOCYCLINA (NEPHROLEPIDINA) SUMATRENSIS

SAMPLE 53674 (CB1)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
2	1.	2.	211.	293.	1.3886	15.70	21.10	38.80	47.00	85.80
3	2.	3.	217.	332.	1.5300	23.50	28.00	38.60	48.70	87.30
4	2.	1.	212.	325.	1.5330	12.00	16.40	39.70	53.40	93.10
5	2.	2.	313.	402.	1.2843	22.40	28.40	40.50	53.70	94.20
6	2.	2.	271.	354.	1.3063	23.60	32.50	41.50	50.20	91.70
7	2.	2.	240.	357.	1.4875	13.30	16.30	36.10	55.50	91.60
8	1.	1.	219.	313.	1.4292	18.10	24.20	43.20	63.50	106.70
9	2.	2.	207.	275.	1.3285	15.40	16.20	32.60	40.50	73.10
12	2.	4.	238.	352.	1.4790	18.80	25.70	41.20	65.20	106.40
13	2.	2.	222.	335.	1.5090	19.30	22.70	36.60	46.10	82.70
14	2.	2.	179.	285.	1.5922	16.90	20.90	37.70	52.90	90.60
15	2.	3.	284.	410.	1.4437	23.10	29.20	35.60	43.70	79.30
16	2.	3.	215.	301.	1.4000	20.00	20.00	38.50	55.70	94.20
17	1.	2.	242.	272.	1.1240	21.90	24.40	38.80	52.80	91.60
18	2.	2.	184.	325.	1.7663	26.00	31.40	43.20	47.00	90.20
19	2.	2.	265.	409.	1.5434	19.90	31.80	41.70	51.20	92.90
20	1.	2.	135.	219.	1.6222	7.60	12.90	38.60	46.70	85.30
21	2.	3.	238.	360.	1.5126	18.40	20.20	35.40	56.00	91.40
22	2.	2.	231.	337.	1.4589	13.90	21.00	41.00	56.80	97.80
23	2.	2.	257.	363.	1.4125	23.00	31.90	42.60	44.40	87.00
24	2.	2.	168.	270.	1.6071	15.30	21.70	39.10	52.50	91.60
28	2.	1.	212.	328.	1.5472	17.60	23.00	40.20	46.80	87.00
30	2.	2.	257.	366.	1.4241	12.00	17.60	40.70	56.80	97.50
31	1.	2.	216.	309.	1.4306	22.00	25.70	38.40	54.90	93.30
32	2.	2.	257.	325.	1.2646	13.00	17.30	35.40	38.10	73.50
33	2.	2.	195.	279.	1.4308	13.80	21.00	38.00	48.60	86.60
35	2.	1.	212.	270.	1.2736	14.60	17.10	41.30	56.10	97.40
36	2.	2.	231.	342.	1.4805	27.80	32.30	40.30	62.10	102.40

37	2.	2.	237.	349.	1.4726	13.50	17.10	34.10	43.40	77.50
38	2.	2.	212.	372.	1.7547	20.00	30.00	43.60	62.10	105.70
39	2.	2.	195.	301.	1.5436	15.80	22.90	39.40	48.20	87.60
41	2.	2.	203.	297.	1.4631	15.20	20.70	40.20	40.30	80.50
42	2.	2.	180.	256.	1.4222	13.60	14.70	31.70	42.50	74.20
43	2.	3.	249.	341.	1.3695	30.90	41.90	47.70	54.90	102.60
47	2.	2.	200.	290.	1.4500	14.10	22.00	40.00	50.00	90.00
48	2.	2.	164.	251.	1.5305	23.40	34.50	43.90	48.10	92.00
49	2.	2.	224.	227.	1.0134	17.10	25.80	41.00	40.20	81.20
50	2.	2.	185.	308.	1.6649	18.00	23.60	39.40	51.50	90.90
51	2.	2.	241.	346.	1.4357	11.10	14.40	35.80	48.40	84.20
52	3.	2.	239.	341.	1.4268	23.60	34.90	40.30	46.80	87.10

NUMBER OF SPECIMENS = 40

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 10653 (VI)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	4.	186.	329.	1.7688	54.30	64.00	60.70	34.40	95.10
2	2.	3.	213.	332.	1.5587	47.40	58.00	60.30	52.10	112.40
3	3.	5.	218.	354.	1.6239	44.00	50.00	53.20	51.60	104.80
4	3.	5.	184.	362.	1.9674	63.50	68.60	58.40	66.80	125.20
5	2.	5.	176.	356.	2.0112	61.20	68.30	62.60	52.30	114.90
6	3.	4.	155.	294.	1.8968	49.00	48.00	56.20	59.50	115.70
7	3.	4.	192.	314.	1.6354	52.60	49.10	52.00	69.80	121.80
8	2.	3.	185.	309.	1.6703	34.00	39.10	48.60	58.10	106.70
10	3.	5.	241.	389.	1.6141	51.00	55.10	51.60	82.60	134.20
11	3.	5.	158.	339.	2.1456	53.10	55.00	52.50	66.60	119.10
14	4.	6.	200.	380.	1.9000	65.00	66.00	56.60	65.50	122.10
15	3.	3.	227.	393.	1.7313	33.40	40.70	47.00	43.90	90.90
17	4.	3.	158.	283.	1.7911	54.40	60.90	57.70	53.70	111.40
18	3.	5.	115.	211.	1.8348	60.00	64.70	54.70	77.70	132.40
19	4.	4.	158.	327.	2.0696	60.70	67.90	60.20	55.50	115.70
21	4.	6.	170.	346.	2.0353	74.10	73.00	63.50	66.40	129.90
22	3.	4.	232.	433.	1.8664	54.70	57.10	53.50	57.50	111.00
24	4.	3.	214.	351.	1.6402	36.90	34.40	41.20	51.50	92.70
25	2.	3.	185.	280.	1.5135	20.00	28.00	46.30	62.70	109.00
26	3.	5.	198.	364.	1.8384	56.50	65.40	54.70	62.30	117.00
28	3.	5.	202.	343.	1.6980	49.50	52.40	43.00	65.30	108.30
29	4.	6.	211.	441.	2.0900	46.90	60.00	55.10	64.70	119.80
30	3.	3.	165.	295.	1.7879	40.60	40.80	43.60	53.50	97.10
31	3.	3.	158.	301.	1.9051	51.80	50.80	52.60	55.70	108.30
32	3.	4.	234.	392.	1.6752	47.80	55.90	75.30	48.00	123.30
34	4.	3.	193.	387.	2.0052	58.50	68.80	58.20	53.60	111.80
35	3.	4.	203.	343.	1.6897	48.20	55.20	53.60	65.40	119.00
37	3.	6.	202.	356.	1.7624	75.70	69.00	44.50	74.90	119.40
38	3.	5.	227.	409.	1.8018	64.30	65.90	52.70	60.10	112.80
39	3.	3.	182.	326.	1.7912	50.00	63.60	54.90	55.90	110.80
40	4.	4.	190.	326.	1.7158	68.40	68.50	56.10	49.80	105.90
41	4.	4.	165.	315.	1.9091	49.00	59.60	54.40	43.40	117.80
42	3.	4.	186.	342.	1.8387	59.10	59.20	53.40	50.30	111.70
43	3.	4.	165.	353.	2.1394	79.30	59.50	58.60	68.70	127.30
44	2.	5.	205.	377.	1.8390	64.30	64.50	58.50	69.10	127.60
45	4.	4.	178.	311.	1.7472	37.00	47.60	48.40	64.60	113.00
46	3.	4.	211.	376.	1.7820	40.70	50.00	49.10	51.50	100.60
47	2.	6.	218.	376.	1.7248	51.80	78.20	65.00	67.40	132.40
48	3.	4.	211.	353.	1.6730	47.80	53.10	52.40	61.10	113.50
49	4.	4.	128.	230.	1.7969	47.60	51.70	51.30	62.30	113.60
50	3.	6.	184.	367.	1.9946	58.10	66.10	59.40	69.60	129.00

NUMBER OF SPECIMENS = 41

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 68320 (CB3)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	3.	4.	218.	380.	1.7431	35.30	46.90	58.60	54.90	113.50
2	3.	3.	233.	471.	2.0215	48.50	60.70	54.50	63.30	117.80
3	2.	4.	205.	417.	2.0341	54.60	64.00	57.10	56.70	113.80
4	2.	3.	186.	385.	2.0699	41.40	54.50	53.50	53.50	107.00
5	2.	6.	217.	411.	1.8940	51.60	68.30	58.20	63.90	122.10
6	2.	5.	214.	379.	1.7710	34.10	41.80	46.20	51.10	97.30
7	2.	4.	230.	423.	1.8391	39.60	50.70	47.30	51.10	98.40
8	3.	4.	209.	392.	1.8756	43.50	59.80	51.60	55.80	107.40
9	2.	2.	159.	257.	1.6164	20.80	26.70	40.00	42.90	82.90
10	3.	3.	185.	379.	2.0486	60.00	60.70	62.60	46.10	108.70
11	2.	3.	238.	409.	1.7185	38.20	50.80	50.80	64.80	115.60
12	2.	4.	222.	370.	1.6667	36.90	45.80	47.00	51.60	98.60
14	3.	5.	208.	405.	1.9471	51.40	60.80	54.10	52.60	106.70
15	3.	3.	242.	422.	1.7438	29.80	44.20	47.90	54.60	102.50
16	3.	4.	254.	439.	1.7283	48.80	59.40	55.70	53.80	109.50
17	2.	2.	181.	324.	1.7901	35.90	50.00	48.40	62.20	110.60
18	3.	4.	224.	441.	1.9688	51.80	60.70	57.60	52.60	110.20
19	3.	4.	200.	379.	1.8950	41.00	52.80	50.90	46.30	97.20
20	3.	4.	230.	415.	1.8043	43.00	55.60	52.00	45.60	97.60
21	2.	4.	232.	408.	1.7586	27.20	56.80	44.30	44.90	89.20
22	2.	4.	197.	366.	1.8579	40.60	54.00	52.00	58.40	110.40
23	2.	6.	287.	500.	1.7422	36.60	52.60	50.70	54.10	104.80
24	3.	7.	243.	408.	1.6790	32.50	59.70	46.90	51.50	98.40
27	2.	4.	132.	226.	1.7121	37.10	58.10	46.10	42.90	89.00
28	3.	2.	204.	362.	1.7745	47.50	56.40	54.40	40.00	94.40
29	3.	5.	270.	447.	1.6556	38.90	55.20	53.60	39.00	92.60
31	2.	7.	197.	376.	1.9086	52.30	60.90	54.00	60.50	114.50
32	3.	5.	184.	382.	2.0761	57.10	64.00	60.60	65.80	126.40
33	2.	4.	206.	411.	1.9951	45.10	60.30	60.40	54.40	114.80

NUMBER OF SPECIMENS = 29

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 68324 (CB4)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	2.	4.	197.	372.	1.8883	51.80	51.60	50.00	57.60	107.60
4	2.	2.	147.	278.	1.8912	34.70	34.80	39.80	50.30	90.10
5	2.	3.	210.	372.	1.7714	46.70	53.10	52.40	57.70	110.10
6	2.	2.	128.	233.	1.8203	20.30	25.00	37.00	37.20	74.20
7	3.	2.	163.	278.	1.7055	31.30	41.70	43.30	50.00	93.30
8	3.	2.	147.	347.	2.3605	15.60	18.80	39.70	49.70	89.40
9	2.	4.	159.	306.	1.9245	56.00	60.30	58.10	64.60	122.70
10	4.	2.	223.	418.	1.8744	57.40	60.60	54.50	51.10	105.60
12	2.	4.	255.	464.	1.8196	50.20	61.70	55.70	54.70	110.40
13	2.	3.	183.	272.	1.4863	24.00	32.40	45.00	48.90	93.90
14	3.	4.	194.	351.	1.8093	26.30	40.00	49.00	54.50	103.50
16	2.	3.	192.	312.	1.6250	25.50	28.10	43.10	55.00	98.10
17	3.	3.	159.	282.	1.7736	31.40	33.90	41.00	50.50	91.50
21	2.	2.	149.	245.	1.6443	43.00	55.60	51.90	57.50	109.40
22	2.	3.	169.	264.	1.5621	30.20	44.40	49.40	55.80	105.20
23	2.	3.	135.	221.	1.6370	23.00	34.30	45.80	49.00	94.80
24	3.	4.	167.	328.	1.9641	50.90	56.90	54.10	54.70	108.80
27	3.	3.	115.	201.	1.7478	27.80	33.30	40.80	63.80	104.60
28	4.	4.	176.	308.	1.7500	36.40	47.60	51.10	56.60	107.70
29	4.	2.	188.	370.	1.9681	59.00	61.40	57.10	70.90	128.00
30	3.	3.	166.	256.	1.5422	18.70	27.30	41.40	69.30	110.70
31	2.	4.	136.	251.	1.8456	45.60	55.20	52.60	58.20	110.80
32	3.	4.	146.	240.	1.6438	48.60	52.90	51.70	58.00	109.70
33	2.	3.	197.	339.	1.7208	42.10	44.40	43.30	45.60	88.90
34	3.	5.	214.	394.	1.8411	41.20	50.70	49.20	52.10	101.30
35	2.	4.	253.	419.	1.6561	42.70	57.90	55.00	41.80	96.80
36	2.	3.	239.	432.	1.8075	36.80	45.80	47.70	48.20	95.90

37	3.	4.	146.	247.	1.6918	40.40	51.20	52.60	42.50	95.10
38	2.	5.	226.	360.	1.5929	26.10	39.30	45.70	51.70	97.40
39	2.	3.	182.	302.	1.6593	40.00	50.00	52.10	46.20	98.30
40	3.	4.	180.	368.	2.0444	44.40	54.50	53.60	51.80	105.40
43	3.	2.	134.	187.	1.3955	9.70	11.80	33.80	47.10	80.90
45	2.	5.	195.	366.	1.8769	41.00	47.60	50.50	54.20	104.70
46	3.	2.	174.	302.	1.7356	31.60	43.20	50.00	45.30	95.30
47	3.	5.	207.	364.	1.7585	45.40	53.80	53.00	51.60	104.60
48	3.	6.	307.	475.	1.5472	34.90	53.00	52.00	68.20	120.20
49	1.	2.	158.	225.	1.4241	20.90	25.00	53.50	51.90	105.40
50	2.	4.	165.	263.	1.5939	35.90	52.30	55.60	62.10	117.70
51	3.	3.	151.	223.	1.4768	21.90	25.00	40.20	43.10	83.30

NUMBER OF SPECIMENS = 39

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI

SAMPLE 70433 (PB1)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	6.	130.	273.	2.1000	74.00	82.20	68.40	66.90	135.30
2	3.	5.	198.	326.	1.6465	34.20	41.60	45.00	56.00	101.00
3	3.	6.	134.	247.	1.8433	50.50	57.80	53.20	60.50	113.70
4	5.	4.	128.	208.	1.6250	44.90	46.30	48.00	50.60	98.60
5	5.	4.	182.	228.	1.2527	25.70	41.90	44.40	53.40	97.80
6	3.	5.	159.	316.	1.9874	65.60	72.70	63.50	57.40	120.90
7	5.	6.	112.	250.	2.2321	64.70	67.10	59.70	60.10	119.80
9	4.	4.	145.	257.	1.7724	49.10	56.80	56.30	58.70	115.00
10	4.	5.	105.	205.	1.9524	51.30	64.10	55.40	58.80	114.20
11	5.	6.	164.	297.	1.8110	26.40	31.70	38.90	65.70	104.60

NUMBER OF SPECIMENS = 10

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI

SAMPLE 70466 (CB5)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	5.	216.	391.	1.8102	43.40	51.40	51.30	57.10	108.40
2	5.	5.	188.	332.	1.7660	45.80	57.40	53.50	55.00	108.50
3	4.	5.	188.	374.	1.9894	76.90	77.50	66.70	49.20	115.90
5	2.	4.	216.	378.	1.7500	46.90	61.90	54.50	55.70	110.20
7	5.	4.	193.	365.	1.8912	49.30	62.50	53.60	57.60	111.20
8	5.	5.	180.	350.	1.9444	37.30	57.60	54.30	57.20	111.50
9	3.	6.	207.	419.	2.0242	58.30	71.20	64.20	57.40	121.60
10	3.	5.	207.	371.	1.7923	46.00	56.80	52.70	67.30	120.00
11	3.	4.	190.	381.	2.0053	66.70	76.90	63.50	66.10	129.60
13	5.	5.	195.	341.	1.7487	51.30	55.80	53.90	68.50	122.40
14	2.	4.	193.	374.	1.9378	50.70	62.50	56.60	61.80	118.40
15	3.	5.	143.	234.	1.6364	49.10	63.50	53.20	62.10	115.30
16	3.	5.	171.	299.	1.7485	41.20	47.00	47.50	49.70	97.20
20	3.	4.	183.	341.	1.8634	57.90	77.80	63.90	73.20	137.10
23	2.	3.	168.	288.	1.7143	33.80	45.00	46.70	52.30	99.00
24	2.	4.	179.	341.	1.9050	60.00	68.50	60.70	68.70	129.40
25	4.	5.	177.	328.	1.8531	35.70	58.80	53.90	59.80	113.70
26	3.	4.	139.	323.	2.3237	72.70	80.00	70.60	66.70	137.30
27	5.	4.	169.	396.	2.3432	78.40	87.50	71.00	58.70	129.70
28	5.	4.	208.	421.	2.0240	56.30	68.20	62.10	71.70	133.80
30	2.	3.	176.	354.	2.0114	54.80	77.90	63.50	63.90	127.40
31	4.	3.	254.	436.	1.7165	44.60	62.10	57.40	66.40	123.80

NUMBER OF SPECIMENS = 22

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI

SAMPLE 70490 (CB6)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
3	2.	4.	207.	327.	1.5797	24.70	35.70	44.50	60.20	104.70
5	3.	2.	122.	200.	1.6393	47.90	54.10	52.90	58.00	110.90
6	3.	3.	213.	337.	1.5822	32.30	40.00	48.40	59.20	107.60

8	3.	2.	166.	296.	1.7831	29.20	38.80	45.20	58.00	103.20
9	3.	2.	153.	236.	1.5425	25.00	31.90	46.30	50.60	96.90
10	5.	3.	122.	209.	1.7131	31.60	38.50	43.10	61.40	104.50
11	3.	4.	160.	292.	1.8250	24.00	39.50	46.30	66.80	113.10

NUMBER OF SPECIMENS = 7

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 70494 (CB7)

SPECIMEN	F	C	DI	DI1	D	DC	E	A	B	A+B
7	4.	2.	125.	218.	1.7440	42.10	54.10	54.40	48.00	102.40
8	2.	4.	203.	414.	2.0394	51.90	70.20	62.00	61.90	123.90
10	2.	5.	211.	372.	1.7630	98.80	97.50	71.90	61.20	133.10
11	2.	2.	191.	291.	1.5236	31.70	36.80	40.20	52.70	92.90
12	2.	3.	266.	425.	1.5977	33.70	40.00	45.00	53.10	98.10
13	4.	2.	119.	182.	1.5294	21.70	26.70	36.80	60.80	97.60
14	2.	2.	213.	374.	1.7559	45.70	56.40	53.80	48.50	102.30
15	1.	2.	151.	279.	1.8477	34.50	44.40	47.60	57.60	105.20
16	4.	2.	139.	244.	1.7554	37.40	44.40	48.10	58.20	106.30
18	2.	4.	182.	332.	1.8242	45.70	56.10	52.90	68.50	121.40
19	1.	2.	113.	169.	1.4956	34.50	37.50	41.80	50.00	91.80
21	3.	2.	101.	167.	1.6535	35.00	40.60	42.60	56.90	99.50
25	4.	2.	146.	215.	1.4726	21.60	29.10	62.30	57.50	119.80
27	4.	3.	106.	196.	1.8491	35.70	46.90	47.50	65.20	112.70
28	3.	3.	187.	297.	1.5882	28.40	37.50	45.20	60.70	105.90
29	4.	3.	101.	183.	1.8119	48.80	57.40	54.20	66.70	120.90
31	1.	3.	223.	308.	1.3812	16.50	24.30	39.30	50.90	90.20
32	2.	3.	111.	194.	1.7477	28.20	40.00	45.50	53.10	98.60
33	2.	2.	111.	157.	1.4144	12.90	16.20	33.90	54.90	88.80
34	3.	3.	177.	327.	1.8475	49.60	57.30	52.00	61.90	113.90
36	4.	2.	101.	174.	1.7228	32.50	36.80	43.10	57.40	100.50
37	3.	4.	183.	321.	1.7541	38.60	51.90	50.00	61.80	111.80
38	3.	2.	98.	140.	1.4286	16.00	20.00	36.80	58.20	95.00
39	3.	2.	111.	157.	1.4144	29.40	34.70	40.30	50.90	91.20
40	3.	3.	170.	331.	1.9471	53.80	60.30	54.70	59.20	113.90

NUMBER OF SPECIMENS = 25

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 70509 (CB9)

SPECIMEN	F	C	DI	DI1	D	DC	E	A	B	A+B
3	5.	5.	117.	230.	1.9658	51.70	59.70	55.40	65.70	121.10
4	4.	4.	136.	286.	2.1029	70.00	77.80	62.50	63.50	126.00
6	5.	5.	138.	346.	2.5072	88.60	80.90	73.00	57.80	130.80
8	5.	6.	147.	318.	2.1633	61.60	70.40	71.10	66.20	137.30
10	5.	3.	109.	216.	1.9817	50.60	63.60	57.10	62.20	119.30
11	4.	3.	159.	280.	1.7610	53.30	65.30	55.30	66.10	121.40
12	3.	5.	132.	286.	2.1667	80.00	88.90	74.30	72.20	146.50
13	4.	3.	139.	280.	2.0144	53.30	63.60	60.30	57.60	117.90
14	5.	5.	108.	246.	2.2778	79.30	71.40	62.00	61.40	123.40
15	4.	4.	140.	278.	1.9857	54.70	72.50	56.90	53.80	110.70
16	5.	3.	120.	237.	1.9750	47.30	61.10	53.70	59.20	112.90
17	5.	3.	157.	302.	1.9236	62.30	69.10	59.60	59.20	118.80
19	5.	4.	118.	231.	1.9576	43.50	50.00	47.80	68.40	116.20
20	4.	3.	116.	235.	2.0259	63.30	74.00	60.30	56.60	116.90
21	5.	5.	148.	260.	1.7568	39.10	52.90	50.60	59.40	110.00
23	4.	5.	147.	264.	1.7959	47.80	61.10	55.60	61.70	117.30
24	5.	4.	121.	250.	2.0661	50.50	60.00	54.30	67.90	122.20
25	5.	6.	128.	272.	2.1250	79.00	69.30	64.20	66.50	130.70
26	4.	7.	166.	418.	2.5181	75.40	89.10	72.50	70.20	142.70
27	4.	5.	133.	268.	2.0150	60.60	66.30	58.00	58.60	116.60
28	4.	4.	157.	301.	1.9172	68.30	69.40	62.00	48.30	110.30
29	5.	4.	118.	247.	2.0932	72.20	78.30	63.90	60.60	124.50
30	3.	4.	138.	260.	1.8841	47.60	56.80	54.70	66.30	121.00

35	4.	3.	160.	256.	1.6000	30.30	38.50	43.00	63.40	106.40
36	5.	3.	138.	276.	2.0000	49.50	60.50	55.60	57.30	112.90
37	5.	4.	138.	287.	2.0797	58.50	65.30	58.20	61.70	119.90
38	5.	2.	136.	251.	1.8456	48.10	58.00	54.20	57.60	111.80
39	3.	4.	121.	258.	2.1322	68.80	82.10	65.70	57.40	123.10
40	3.	4.	157.	302.	1.9236	67.70	72.70	60.20	61.50	121.70
41	3.	4.	136.	281.	2.0662	57.70	76.90	60.30	69.10	129.40
44	4.	4.	168.	314.	1.8690	56.30	65.70	54.80	51.00	105.80

NUMBER OF SPECIMENS = 31

LEPIDUCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 70564 (CB10)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
3	3.	3.	247.	429.	1.7368	29.50	45.20	48.00	60.00	108.00
4	2.	4.	156.	240.	1.5385	29.20	38.90	42.40	49.10	91.50
5	3.	5.	257.	429.	1.6693	32.30	40.00	44.80	60.80	105.60
6	3.	2.	188.	344.	1.8298	37.90	52.90	51.50	59.40	110.90
7	3.	4.	198.	331.	1.6717	37.30	43.80	44.30	67.80	112.10
8	2.	2.	142.	276.	1.9437	54.50	65.20	55.60	58.30	113.90
9	2.	2.	231.	388.	1.6797	23.50	26.90	36.80	45.60	82.40
10	3.	3.	220.	395.	1.7955	32.90	40.00	46.70	46.70	93.40
11	1.	2.	140.	248.	1.7714	27.80	38.50	44.60	46.90	91.50
12	2.	5.	359.	612.	1.7047	49.60	67.80	59.70	70.40	130.10
13	2.	2.	195.	339.	1.7385	41.30	59.00	52.00	59.60	111.60
15	1.	3.	165.	220.	1.3333	27.60	34.00	43.70	45.30	89.00
16	3.	4.	267.	509.	1.9064	49.50	64.50	56.60	53.10	109.70
17	2.	3.	231.	463.	2.0043	51.40	60.40	56.10	58.50	114.60
18	3.	5.	289.	516.	1.7855	41.40	51.40	49.40	56.10	105.50
21	2.	3.	348.	505.	1.4511	33.30	45.60	45.90	49.10	95.00
22	2.	3.	146.	250.	1.7123	25.90	36.30	42.90	41.70	84.60
23	2.	3.	143.	251.	1.7552	24.50	33.80	41.90	50.00	91.90
24	2.	2.	173.	275.	1.5896	21.10	28.30	40.20	50.80	91.00
25	2.	5.	192.	364.	1.8958	58.10	68.30	60.00	52.60	112.60

NUMBER OF SPECIMENS = 20

LEPIDUCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 70603 (RG1)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	1.	4.	234.	417.	1.7821	38.90	53.80	56.70	46.50	103.20
2	4.	5.	267.	482.	1.8052	26.80	50.00	53.20	55.20	108.40
3	3.	4.	237.	391.	1.6498	33.00	47.60	50.80	51.90	102.70
4	4.	5.	228.	370.	1.6228	40.00	51.90	53.20	55.10	108.30
5	3.	5.	258.	345.	1.3372	24.20	27.40	37.60	54.20	91.80
6	3.	3.	224.	329.	1.4688	17.40	25.00	43.80	47.90	91.70
7	4.	2.	273.	382.	1.3993	11.90	9.50	33.80	43.00	76.80
8	4.	5.	225.	358.	1.5911	26.60	40.40	46.60	54.00	100.60
9	4.	4.	259.	447.	1.7259	41.00	59.40	53.30	61.50	114.80
10	3.	5.	233.	359.	1.5408	22.20	32.30	44.20	59.70	103.90
11	3.	7.	212.	440.	2.0755	46.30	60.80	55.20	52.50	107.70
12	2.	2.	198.	371.	1.8737	55.90	78.70	63.20	73.70	136.90
13	3.	5.	208.	406.	1.9519	43.80	53.80	52.50	55.00	107.50
15	4.	5.	195.	345.	1.7692	45.20	61.80	54.90	63.80	118.70
16	3.	4.	134.	292.	2.1791	46.60	70.60	56.30	53.10	109.40
17	4.	4.	164.	315.	1.9207	38.10	56.50	50.00	56.40	106.40
18	4.	5.	160.	276.	1.7250	42.30	53.10	63.90	66.70	130.60
19	4.	5.	221.	391.	1.7692	47.10	58.00	54.90	63.80	118.70
21	3.	5.	157.	285.	1.8153	51.70	68.90	62.50	61.00	123.50
22	2.	4.	249.	440.	1.7671	39.50	53.60	49.20	58.80	108.00
23	4.	4.	152.	283.	1.8618	45.70	55.20	50.00	65.00	115.00
25	3.	4.	183.	361.	1.9727	52.90	61.70	56.90	51.30	108.20
26	2.	5.	223.	406.	1.8206	66.50	68.90	60.90	51.40	112.30
28	3.	2.	223.	363.	1.6278	32.90	41.50	47.20	50.60	97.80

29	4.	3.	186.	347.	1.8656	37.30	49.50	48.50	57.10	105.60
30	3.	3.	247.	474.	1.9190	57.90	68.80	61.00	60.10	121.10
31	3.	3.	198.	358.	1.8081	32.90	51.00	51.00	61.20	112.20
32	3.	4.	203.	333.	1.6404	35.30	47.40	44.50	54.60	99.10
33	3.	3.	198.	359.	1.8131	28.30	43.00	49.50	49.60	99.10
34	2.	5.	176.	359.	2.0398	65.20	86.30	71.40	73.90	145.30
36	3.	4.	180.	315.	1.7500	33.30	48.90	51.10	57.60	108.70
38	3.	5.	223.	470.	2.1076	51.20	61.60	55.90	64.60	120.50
39	4.	4.	245.	390.	1.5918	20.30	29.60	42.30	54.40	96.70
40	4.	4.	138.	296.	2.1449	53.40	59.80	55.30	64.10	119.40

NUMBER OF SPECIMENS = 34

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE 70604 (BG2)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	3.	283.	500.	1.7668	33.50	45.00	49.30	54.60	103.90
2	2.	2.	112.	220.	1.9643	17.60	19.50	34.30	46.70	81.00
3	4.	8.	230.	479.	2.0826	65.70	69.70	62.20	61.10	123.30
4	3.	4.	178.	276.	1.5506	17.80	23.30	38.00	53.60	91.60
5	3.	2.	145.	251.	1.7310	30.90	40.00	47.40	42.10	89.50
6	3.	4.	168.	274.	1.6310	31.30	50.60	54.20	61.20	115.40
7	4.	2.	184.	263.	1.4293	15.00	23.30	42.20	45.10	87.30
8	3.	4.	171.	263.	1.5380	13.80	18.90	37.90	49.70	87.60
9	1.	3.	178.	289.	1.6236	11.10	13.90	36.90	50.20	87.10
12	4.	4.	306.	563.	1.8399	51.90	64.20	57.70	67.90	125.60
13	2.	7.	241.	485.	2.0124	52.60	60.60	54.90	55.70	110.60
14	1.	2.	122.	213.	1.7459	35.40	42.00	47.20	42.00	89.20
15	3.	2.	165.	297.	1.8000	29.20	40.40	48.90	49.00	97.90
16	2.	3.	142.	249.	1.7535	34.80	45.30	48.80	53.30	102.10
18	3.	3.	151.	257.	1.7020	33.60	57.10	51.30	49.70	101.00
19	3.	2.	143.	247.	1.7273	10.90	18.20	42.50	46.50	89.00
20	3.	5.	322.	603.	1.8727	67.60	77.30	67.70	59.20	126.90
22	3.	5.	138.	268.	1.9420	34.00	21.20	50.00	59.40	109.40
23	2.	4.	143.	374.	2.6154	21.30	32.00	45.30	56.30	101.60
24	3.	3.	169.	268.	1.5858	23.80	38.80	46.50	50.50	97.00
25	3.	3.	175.	273.	1.5600	19.50	28.90	44.40	57.70	102.10
26	3.	4.	184.	328.	1.7826	37.60	46.10	49.00	53.60	102.60
27	3.	2.	176.	286.	1.6250	31.10	37.50	45.40	54.40	99.80
28	3.	3.	189.	332.	1.7566	49.00	63.40	55.90	66.70	122.60
30	2.	7.	273.	521.	1.9084	58.10	61.00	56.40	63.70	120.10
31	3.	3.	133.	209.	1.5714	11.80	16.90	38.90	45.90	84.80
32	3.	2.	136.	235.	1.7279	26.90	33.70	44.60	55.70	100.30
33	3.	4.	143.	254.	1.7762	34.50	44.20	50.00	55.20	105.20
34	3.	2.	134.	237.	1.7687	36.90	54.30	52.80	44.20	97.00
35	2.	4.	189.	320.	1.6931	38.60	50.90	50.50	47.10	97.60
36	1.	3.	145.	215.	1.4828	14.40	22.90	43.10	48.10	91.20
37	3.	2.	190.	293.	1.5421	31.50	33.60	44.90	57.00	101.90
39	3.	4.	207.	317.	1.5314	31.60	42.70	48.10	61.50	109.60
40	3.	2.	152.	236.	1.5526	22.40	27.70	37.90	40.90	78.80

NUMBER OF SPECIMENS = 34

LEPIDOCYCLINA (NEPHROLEPIDINA) JAPONICA
SAMPLE 70606 (BG3)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	3.	6.	160.	335.	2.0938	62.20	73.10	66.70	59.70	126.40
2	3.	4.	224.	380.	1.6964	39.20	58.30	56.50	59.30	115.80
3	3.	4.	144.	310.	2.1528	55.50	67.00	56.80	52.70	109.50
4	2.	4.	144.	295.	2.0486	59.10	65.00	58.50	58.20	116.70
5	2.	5.	190.	399.	2.1000	50.30	60.70	54.30	56.20	110.50
6	2.	7.	173.	334.	1.9306	43.90	61.10	52.20	56.60	108.80
7	3.	5.	158.	312.	1.9747	45.00	56.30	53.50	55.60	109.10
8	2.	4.	171.	221.	1.2924	53.80	68.60	58.70	61.40	120.10

10	3.	3.	171.	334.	1.9532	54.60	65.10	58.10	62.70	120.80
11	2.	4.	167.	307.	1.8383	38.40	44.90	60.40	52.80	113.20
12	2.	5.	213.	363.	1.7042	38.80	49.60	51.40	56.60	108.00
13	2.	5.	139.	300.	2.1583	42.30	58.70	52.80	55.40	108.20
14	2.	4.	200.	365.	1.8250	49.30	61.70	58.10	54.50	112.60
15	2.	3.	147.	223.	1.5170	25.50	33.30	45.00	43.60	88.60
16	3.	4.	153.	307.	2.0065	48.70	73.70	59.50	49.50	109.00
17	3.	4.	145.	263.	1.8014	43.60	50.50	50.60	47.10	97.70
18	2.	4.	180.	316.	1.7556	35.60	48.00	48.50	52.60	101.10
20	2.	4.	144.	295.	2.0486	70.40	76.60	66.30	53.20	119.50
23	3.	3.	184.	322.	1.7500	31.40	44.90	47.90	54.00	101.90
24	2.	4.	158.	322.	2.0380	67.50	71.10	62.10	67.70	129.80
25	2.	5.	117.	247.	2.1111	55.60	67.60	60.70	43.10	103.80
26	3.	5.	111.	315.	2.8378	57.60	68.10	57.10	55.90	113.00
28	2.	4.	160.	276.	1.7250	36.60	47.40	48.80	50.00	98.80
29	2.	4.	182.	341.	1.8736	47.10	55.00	52.00	55.00	107.00
30	4.	3.	102.	224.	2.1961	53.80	63.60	57.10	56.40	113.50
31	4.	4.	128.	217.	1.6953	42.90	52.50	50.00	55.60	105.60
32	2.	4.	137.	286.	2.0876	57.10	66.70	57.70	53.80	111.50
33	1.	4.	163.	366.	2.2454	56.00	70.00	62.20	66.50	128.70
35	4.	3.	124.	229.	1.8468	38.90	49.30	51.50	60.10	111.60

NUMBER OF SPECIMENS = 29

LEPIDOCYCLINA (NEPHROLEPIDINA) ORAKEIENSIS
SAMPLE 70612I (NZ2)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	4.	263.	489.	1.8593	38.60	46.50	49.00	41.20	90.20
2	3.	8.	310.	563.	1.8161	77.10	84.40	71.80	67.70	139.50
3	3.	4.	241.	437.	1.8133	52.60	56.50	54.30	64.10	118.40
4	2.	3.	281.	420.	1.0947	16.20	22.00	38.70	51.20	89.90
5	4.	6.	271.	527.	1.9446	59.50	66.10	56.50	68.50	125.00
6	3.	6.	420.	728.	1.7333	32.50	37.90	42.40	52.40	94.80
8	4.	6.	249.	496.	1.9920	51.60	62.20	57.40	62.50	119.90
9	3.	7.	251.	476.	1.8964	70.00	78.20	66.70	53.40	120.10
10	4.	6.	225.	467.	2.0756	74.00	76.70	66.70	59.40	126.10
11	4.	6.	253.	523.	2.0672	57.90	75.90	63.70	73.40	137.10
12	4.	8.	305.	271.	.8885	91.10	93.10	81.80	55.80	137.60
13	4.	5.	271.	460.	1.6974	37.10	57.40	52.20	50.50	102.70
14	2.	7.	276.	716.	2.5942	99.50	91.80	80.30	54.20	134.50
16	3.	2.	265.	356.	1.3434	26.70	34.40	43.10	47.20	90.30
19	4.	3.	249.	324.	1.3012	27.60	31.40	41.40	53.70	95.10
20	4.	6.	240.	453.	1.8875	50.80	58.80	54.10	63.60	117.70

NUMBER OF SPECIMENS = 16

LEPIDOCYCLINA (NEPHROLEPIDINA) ORAKEIENSIS
SAMPLE 70612II (NZ3)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	4.	6.	263.	245.	.9316	30.60	40.10	46.80	65.00	111.80
2	4.	8.	440.	497.	1.1295	66.70	76.60	66.00	63.10	129.10
4	4.	5.	241.	386.	1.6017	28.40	36.00	44.10	57.40	101.50
8	3.	6.	311.	647.	2.0804	57.10	59.80	56.50	46.50	103.00
9	5.	6.	230.	405.	1.7609	44.00	41.60	43.80	60.80	104.60
10	4.	5.	174.	355.	2.0402	56.10	57.40	53.90	61.80	115.70
11	4.	7.	211.	461.	2.1848	65.60	75.00	61.70	68.20	129.90
12	3.	7.	250.	447.	1.7880	53.70	58.00	55.30	64.30	119.60
13	4.	4.	245.	392.	1.6000	48.40	55.60	52.20	56.50	108.70
14	3.	7.	282.	559.	1.9823	56.60	69.00	60.10	84.40	144.50
15	3.	7.	291.	506.	1.7388	48.70	58.90	53.30	76.90	130.20
16	4.	6.	303.	466.	1.5380	31.80	49.70	49.00	66.10	115.10
18	3.	7.	215.	400.	1.8605	53.70	63.80	57.90	62.50	120.40
19	4.	4.	228.	394.	1.7281	54.60	55.60	52.60	55.50	108.10
20	3.	8.	186.	433.	2.3280	72.50	87.30	70.50	69.70	140.20

NUMBER OF SPECIMENS = 15

LEPIDOCYCLINA (NEPHROLEPIDINA) ORAKEIENSIS

SAMPLE 70613 (N24)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	2.	3.	171.	179.	1.6316	26.90	30.40	43.20	73.70	116.90
2	2.	3.	297.	463.	1.5589	27.40	38.30	44.90	66.70	111.60
3	2.	2.	237.	391.	1.6498	18.30	25.80	42.40	54.20	96.60
4	2.	4.	290.	371.	1.2793	15.90	25.70	40.00	68.10	108.10
5	2.	5.	239.	397.	1.6611	23.90	37.00	45.50	54.80	100.30
6	3.	4.	338.	519.	1.5355	11.90	20.70	42.30	67.50	109.80
7	2.	4.	286.	451.	1.5769	11.40	18.00	39.90	51.20	91.10
8	2.	4.	247.	450.	1.8219	18.60	25.70	41.30	57.60	98.90
9	2.	4.	223.	351.	1.5740	28.60	40.00	47.00	60.30	107.30
10	2.	2.	268.	459.	1.7127	27.10	39.00	49.90	85.30	135.20
12	2.	7.	259.	408.	1.5753	19.50	29.60	43.00	57.20	100.20
13	2.	4.	215.	377.	1.7535	26.50	36.00	44.20	63.90	108.10
14	2.	4.	203.	380.	1.8719	31.30	38.50	43.60	60.20	103.80
19	3.	4.	245.	410.	1.6735	23.90	38.10	45.80	69.80	115.60
20	3.	5.	249.	544.	2.1847	46.10	68.80	58.90	73.40	132.30
24	1.	5.	216.	417.	1.9306	37.80	48.40	52.20	69.20	121.40
25	3.	5.	240.	415.	1.7292	58.70	64.30	57.40	61.60	119.00
28	2.	3.	207.	390.	1.8841	26.50	43.90	48.50	63.30	111.80
31	3.	3.	204.	296.	1.4510	5.60	8.70	36.30	48.90	85.20
32	2.	3.	172.	380.	2.2093	51.90	53.80	52.40	49.80	102.20
33	2.	3.	232.	426.	1.8362	38.50	50.00	51.60	59.40	111.00
34	2.	6.	223.	378.	1.6951	18.90	28.70	40.90	57.20	98.10
35	2.	3.	221.	344.	1.5566	40.10	52.30	50.80	68.60	119.40
36	2.	4.	247.	500.	2.0243	45.60	59.50	56.30	59.90	116.20
41	2.	4.	204.	365.	1.7892	34.60	41.40	45.80	52.70	98.50

NUMBER OF SPECIMENS = 25

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI

SAMPLE 72223 (P82)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	3.	4.	112.	195.	1.7411	47.10	51.30	53.30	58.10	111.40
2	4.	4.	187.	336.	1.7968	47.20	49.60	50.00	58.70	108.70
3	5.	7.	132.	248.	1.8788	51.00	58.00	54.80	68.50	123.30
4	4.	4.	111.	227.	2.0450	47.60	53.30	57.40	66.70	124.10
5	3.	4.	119.	198.	1.6639	32.20	37.20	43.90	55.90	99.80
6	3.	6.	174.	286.	1.6437	50.80	62.00	53.10	65.60	118.70
7	4.	5.	121.	216.	1.7851	45.70	51.20	51.50	58.80	110.30
8	5.	5.	125.	237.	1.8960	33.70	45.10	46.20	67.10	113.30
9	3.	4.	139.	274.	1.9712	48.10	56.70	53.80	67.20	121.00

NUMBER OF SPECIMENS = 9

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI

SAMPLE 72224 (Q1)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	5.	4.	226.	386.	1.7080	38.60	51.50	50.80	65.20	116.00
2	4.	5.	265.	463.	1.7472	53.40	71.00	64.50	69.50	134.00
3	4.	4.	247.	433.	1.7530	41.70	56.30	53.80	50.60	104.40
7	4.	4.	203.	361.	1.7783	41.00	52.00	51.30	69.00	120.30
8	3.	4.	298.	477.	1.6007	27.10	38.10	45.30	63.40	108.70
9	4.	5.	267.	462.	1.7303	37.00	58.80	54.80	67.10	121.90
10	5.	5.	126.	262.	2.0794	80.60	71.80	60.70	70.50	131.20
11	3.	4.	295.	506.	1.7153	48.70	62.90	57.60	67.70	125.30
12	4.	5.	267.	466.	1.7453	49.80	57.70	54.80	70.30	125.10
13	3.	5.	232.	461.	1.9871	42.00	57.80	54.40	64.50	118.90
14	5.	5.	217.	311.	1.4332	40.00	50.80	48.70	55.20	103.90
15	5.	7.	220.	386.	1.7545	46.70	60.50	53.90	73.90	127.80
16	4.	7.	200.	395.	1.9750	56.60	74.10	61.80	69.00	130.80

17	3.	5.	257.	375.	1.4591	33.80	36.30	41.30	65.10	106.40
19	4.	4.	255.	422.	1.6549	38.30	51.70	52.60	78.70	131.30
20	4.	4.	247.	409.	1.6559	37.40	47.30	49.60	61.20	110.80

NUMBER OF SPECIMENS = 10

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE MF6963 (CB11)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	3.	4.	178.	354.	1.9888	68.60	80.00	68.00	71.70	139.70
2	3.	4.	192.	406.	2.1146	66.20	76.90	64.90	68.30	133.20
3	3.	5.	279.	536.	1.9211	57.70	66.80	57.30	64.00	121.30
4	4.	5.	131.	294.	2.2443	82.50	73.90	64.00	66.70	130.70
5	3.	4.	250.	688.	2.7520	31.00	42.80	48.60	52.40	101.00
6	4.	6.	169.	363.	2.1479	76.30	81.10	68.30	59.20	127.50
7	3.	5.	150.	298.	1.9867	46.70	60.90	55.80	56.50	112.30
9	2.	5.	259.	420.	1.6216	42.50	56.40	53.50	54.70	108.20
10	5.	5.	191.	408.	2.1361	75.80	85.90	73.30	78.20	151.50
11	4.	6.	237.	466.	1.9747	74.60	83.60	71.40	75.10	146.50
12	5.	3.	200.	397.	1.9850	66.00	72.50	61.50	68.80	130.30
15	3.	4.	224.	354.	1.5804	25.70	32.40	41.30	53.00	94.30
16	3.	3.	212.	233.	1.0991	28.50	34.60	29.90	50.40	80.30
17	4.	5.	205.	431.	2.1024	68.10	76.20	65.80	60.70	126.50
18	3.	5.	162.	374.	2.3086	88.90	88.90	74.80	78.40	153.20
20	3.	5.	199.	442.	2.2211	74.80	81.70	67.20	63.10	130.30
22	4.	5.	227.	631.	2.7797	50.00	64.30	58.80	61.30	120.10
23	4.	4.	164.	298.	1.8171	53.80	70.00	59.40	63.50	122.90
24	5.	7.	255.	424.	1.6627	44.60	63.40	54.50	76.90	131.40
25	4.	4.	253.	429.	1.6957	53.00	57.90	54.70	75.30	130.00
26	5.	4.	159.	301.	1.8931	36.50	44.70	45.70	57.40	103.10
27	4.	4.	221.	417.	1.8869	64.00	67.50	59.00	62.10	121.10
29	4.	4.	201.	333.	1.6567	41.30	55.70	51.40	71.50	122.90
30	3.	4.	220.	358.	1.6273	42.40	56.30	51.90	60.80	112.70
31	4.	5.	227.	409.	1.8018	42.30	49.30	46.20	60.50	106.70
33	4.	4.	176.	350.	1.9886	55.10	70.80	60.40	73.60	134.00
34	3.	6.	224.	433.	1.9330	68.20	75.00	59.80	53.10	112.90
35	4.	3.	223.	350.	1.5695	33.10	48.30	49.60	77.70	127.30
36	3.	5.	254.	455.	1.7913	42.00	54.50	49.70	69.70	119.40

NUMBER OF SPECIMENS = 29

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE MF6964 (CB12)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
1	3.	4.	144.	290.	1.7361	42.90	59.80	50.60	66.20	116.80
2	4.	4.	123.	240.	1.9512	53.10	69.90	60.30	69.90	130.20
3	5.	3.	151.	272.	1.8013	53.40	57.30	52.20	68.50	120.70
4	4.	3.	167.	291.	1.7425	35.40	42.60	45.30	57.10	102.40
5	4.	4.	160.	288.	1.8000	64.00	76.90	62.10	62.60	124.70
6	3.	4.	114.	251.	2.2018	61.80	68.80	58.30	65.80	124.10
7	4.	6.	133.	313.	2.3534	75.50	82.80	68.80	71.20	140.00
8	3.	3.	128.	229.	1.7891	54.10	69.70	58.20	61.90	120.10
10	4.	3.	130.	241.	1.8538	52.00	60.50	57.30	63.90	121.20
11	4.	3.	130.	227.	1.7462	34.00	40.00	44.70	69.90	114.60
15	2.	5.	110.	258.	2.3455	83.50	88.80	74.20	59.10	133.30
16	2.	4.	168.	351.	2.0893	75.40	84.50	69.10	67.50	136.60
18	5.	4.	129.	290.	2.2481	71.00	77.20	64.90	71.90	136.80
19	3.	5.	103.	232.	2.2524	80.00	76.20	64.60	69.90	134.50
20	4.	3.	124.	255.	2.0565	53.20	60.20	56.20	55.80	112.00

NUMBER OF SPECIMENS = 15

LEPIDOCYCLINA (NEPHROLEPIDINA) HOWCHINI
SAMPLE MF6971 (CB14)

SPECIMEN	F	C	DI	DII	D	DC	E	A	B	A+B
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