

Fish bones from excavations at Alms lane, Norwich

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Introduction

Excavations at Alms Lane have provided an excellent opportunity for examining fish remains from medieval Norwich. The site underwent major changes in use, beginning as a dumping ground for iron waste (periods 1-3) and developing into a intensely occupied area of the town (periods 4 onwards). It has been possible to examine both the general characteristics of the fish consumed by people in medieval Norwich and to look closely for diachronic and spatial differences in fish exploitation.

During the excavation samples of many layers were examined for fish bones and other small remains by sieving soil samples to 1 mm using a modified Sifra^f sieving tank (Kenward, Hall and Jones 1980). Each sample weighed approximately 15 kg (roughly one 12 litre bucketful), accurate records of sample weight were not taken. An attempt was made to sample as many layers as possible in order to analyse the distribution of fish bones by phase and context type. A total of 244 samples were collected and processed; 166 (from 152 contexts) produced 3315 identifiable fish remains. Over 100 identifiable bones were collected from phases 3-11 (inclusive).

Two contexts stand out as different from the majority. Context 2422 was a large stone rubble-lined pit from tenement A filled in phase 11. This cesspit was one of the few which contained occupation debris; most pits were back-filled rapidly with building rubble. Twelve separate samples were collected from a central column in the fills of cesspit 2422

in order to examine changes in the numbers and kinds of fish remains deposited during the filling of the feature. Context 1520 comprised the fill of a green glazed pottery vessel apparently found in situ within building Cl. Although found on a hearth there was no sooting on the outside of the vessel which may indicate that it was not being used as a cooking pot at the time it was abandoned. The fills of the pot were carefully removed and sieved for small bones and other remains.

The majority of the bones were identified by the author during the course of the excavation. Difficult determinations, e. g. cyprinid pharyngeal bones, were checked by Mr A. C. Wheeler of the British Museum (Natural History). A group of small samples were recently identified using the reference collection of the Environmental Archaeology Unit, University of York. The identifications were processed using the computer database management system 1022. A full list of identified bones with their measurements is given by context and phase in microfiche. The generic and specific nomenclature of fish follows Wheeler, 1969.

Results

The assemblage of fish bones collected from this site was dominated by remains of marine fish. Almost two thirds of the identified bones were from adult herring, Clupea harengus L. In addition, substantial numbers of remains from cartilaginous fish, Elasmobranchii, eel, Anguilla anguilla L., whiting, Merlangius merlangus (L.), cod, Gadus morhua L., and flatfish, Pleuronectidae, were present. At least two species of cartilaginous fish were present; spur-dog, Squalus acanthias (L.), and thornback ray, Raja clavata L. A few marine species were represented by small numbers of bones, e. g. sprat/young herring, cf. Sprattus/Clupea,

haddock, Melanogrammus aeglefinus (L.), ling, Molva cf. molva (L.), mackerel, Scomber scombrus L., gurnard, Triglidae, horse mackerel, Trachurus trachurus (L.) and sole, Solea solea (L.). Sprats or young herring were identified by 21 vertebral centra and a group of small scales. The vast majority of the sprat/young herring remains were found in the fill of the pottery vessel, context 1520, these are recorded in Table 00 as Clupeidae. Some vertebrae were identified as ?sprat. In order to prepare the rank order diagrams the numbers of bones identified as small Clupeidae and ?sprat were added and designated '?sprat'.

Exclusively freshwater fish, pike, Esox lucius L., cyprinids (including roach, Rutilus rutilus (L.), and tench, Tinca tinca (L.)) and perch, Perca fluviatilis L., represent only 2% of the identified bones. Of the fish which live in salt or freshwater eel was present in substantial numbers; salmonid, Salmo sp., and stickleback, Gasterosteus aculeatus L., bones were very rare.

The diversity of the fish assemblage (number of taxa present in each phase) was plotted against the number of samples (fig 01). Figure 01 clearly shows that the number of taxa present is positively correlated to the number of samples examined. At approximately 15 samples the curve levels off, indicating that phases with less than 15 samples are likely to contain only the most common fish remains.

The data have been analysed by phase (see table 01). At first sight there did not appear to be any significant deviation from the pattern described above for the site as a whole. The early phases (1-3) contained rather fewer bones than phases 4-11, the periods of most intense occupation. Only the most common taxa were present in the phases 1 and 2. There did not appear to be any major change in the kinds of fish present on the site during phases 4-11. However, there were some small variations

in the numbers of less common taxa (pike, cyprinids, haddock, ling, perch and sole), but the abundant fish, herring, whiting, cod, eel and flatfish, appeared in greatest numbers in all phases. Domestic dwellings were not constructed on the site until phase 5, a period when fish remains were found to be more abundant.

The bones were recovered from a large number of different kinds of features. These were grouped into three categories: pits, layers laid down within buildings (including hearths), and miscellaneous layers e.g. yards deposits. As the site was divided into tenements it was also possible to examine the distribution of fish bones by feature kind and tenement. Details showing how the samples were grouped are given in table 00 in microfiche.

Tenement A encompassed pit 2422 which produced a large number of bones. While there did not appear to be any significant differences in the numbers or kinds of bones deposited as the feature was filled, a relatively large number of bones from exclusively freshwater fish (pike, roach, tench and perch) were present. In this context it seems likely that the stickleback bone was also from a fish caught in freshwater. The other pits from this tenement produced small groups of bones typical of the overall assemblage.

Tenement B produced very few fish bones from pits while the pits in tenement C are characteristic of the site in general. During phase 9 an area on the Muspole Street frontage (plot 3) is thought to have been used as an alehouse and included two cesspits. The fish bones from this area of the site were unexceptional.

The kinds of fish bones recovered from layers laid down with houses in both tenements A and B (phases 4-7) conform to the pattern observed for the site as a whole. However, the absence of fish remains in houses in phases 8 onwards in both tenements is notable.

Building C1 is particularly interesting because it contains context 1520, a pot the fill of which included a large number of fish remains. Bones from the heads of at least 8 adult herring together with sprat/young herring vertebrae and scales dominated this assemblage. When the pot was emptied it was clear that herring remains were concentrated at the base of the vessel. The bulk of the fill of the pot produced a small number of bones. Unfortunately, it was not possible to separate the bones from the basal fill from those found in the body of the pot, but it is thought that the small number of non-herring bones came from the soil filling the vessel.

Miscellaneous deposits (i.e. those that were neither pit-fills nor deposits within buildings) from all tenements produced fish bone assemblages typical of the site.

The size of the fish present in the deposits has been assessed by comparing archaeological remains with bones of modern specimens of known length. A total of twelve whiting dentaries (lower jaw bones) were measured using vernier calipers. The measurement taken was the depth of the dentary as described for cod by Wheeler and Jones (1976). A group of 17 modern whiting dentaries from fish of known total length were also measured and their dentary depth plotted against total length of the fish (fig. 02). The modern whiting ranged from 10 cm to 44 cm total length. A regression line was fitted to the plot and the length of the archaeological fish estimated. The length of the fish was found to be highly positively correlated with the depth of the dentary bone ($r =$

0.996). The smallest whiting from Alms Lane was approximately 28 cm long while the largest measured in the region of 63 cm total length. The majority were between 30 and 45 cm long. Table 00 gives the measurements and estimated lengths of the archaeological specimens. Using a graph showing the relationship of cod premaxillae size and fish length (Wheeler and Jones, 1976) the 5 cod premaxillae (upper jaws) were sized. Four of the cod were large fish (90-105 cm total length) with one smaller animal approximately 45 cm long. Measurements of cod vertebrae indicate that the majority of the fish measured between 50 and 100 cm total length. Bones of both the head and body suggest that whole fresh fish were imported. Details of other measured bones are available from the archive of fish records. All the other fish represented at Alms Lane appear to be from animals of average size.

Discussion

There can be little doubt that the medieval and post-medieval occupants of the Alms Lane site ate a large amount of herring, and that marine fish, notably cartilaginous fish, whiting, cod and flatfish, figured as a prominent dietary ingredients. Bones of all the marine fish present at Alms Lane were also found in excavations at Great Yarmouth (Wheeler and Jones 1976), and it seems probable that fish were imported from the East Coast. (Details of the biology, fisheries and problems of differential preservation of the principal species are discussed in the Great Yarmouth report.)

Eel appears to be the only fish which was locally available and consumed in large numbers. Exclusively freshwater fish appear to have been insignificant as a major food item, although they must have added

occasional interest to medieval fare.

The numbers and kinds of fish bones deposited at Alms Lane do not show many changes through time, neither do they vary greatly with the type of layer sampled. Even the influx of Dutch immigrants did not appear to have influenced the kinds of fish remains incorporated into deposits on the site. This suggests that during the whole of the medieval occupation herring, whiting, cod, eel and flatfish were the most important food species, and that the remains of these fish were scattered indiscriminately across the site.

Evidence from Whitefriars Street Car Park (421N), Pottergate (149N), The Lower Close (300N), Botolph Street (281N) and Bacon House (172N) (table 00) shows that this pattern was characteristic for much of medieval Norwich.

It is interesting that the Whitefriars Street Car Park (421N) material is so similar to the occupation sites. At Whitefriars Street Car Park (421N) the bones were collected from deposits forming the river bank, a situation where rubbish from many households may have been mixed with remains of animals which died in the river. It therefore appears from the present study that the Whitefriars Street Car Park (421N) assemblage was composed mainly of domestic fish refuse.

While the general characteristics of the fish assemblage from Alms Lane did not appear to show major changes, localized differences in the abundance of some species, and the distribution of bones in deposits of different kinds have been revealed.

Some of these differences may be artefacts of the sampling and analyses. For example, whiting, a species which is present in almost every phase, is most abundant in phases 4 and 5, perhaps suggesting a

greater consumption of this species. By contrast, whiting bones were less common in pit 2422 than in most other context groups.

Relatively large numbers of remains of freshwater fish recovered from pit 2422 and may reflect a preference for these animals. Pike, tench, roach, perch and stickleback are today present in the Wensum. It is impossible to be certain that all these fish were eaten, in particular, the stickleback is likely to have been discarded with the entrails of a larger animal.

Fishing for freshwater fish was governed by local laws for in 1292/3 there is a mention of illegal nets being set across the river at Surlingham (Hudson, 1892). The Rolls of Pleas for 1350 mention a certain 'David fishmonger' who was a dealer in freshwater fish (Hudson, op. cit.). In the same work in 1390/1 there is a mention of perch, roach and pike being stolen. These references make it clear that freshwater fish were taken from the Wensum in substantial numbers - sufficient to occupy at least one fishmonger. The number of bones of freshwater fish recovered from Alms Lane is small compared to the numbers of bones from marine fish. The implication must be that the fish bones collected from this site are but a small fraction of the bones brought onto site during the periods investigated. In this light species which occur as small numbers of bones reflect the diversity of fish species consumed, but it would be unwise to attempt to assess their significance in people's diet.

The most clear change in bone distribution is to be found in tenements A and B. There appears to be a change in the kind of deposits which contained fish remains. Until phase 8 most fish bones were found on floors or in other layers within buildings. In phases 8-11 fish remains were only recovered from pit fills located outside buildings. This may indicate a deliberate attempt to keep houses clean and concentrate rubbish

disposal in pits. There is unequivocal evidence that rubbish was carted off the site from period 11 onwards (see p.) and it is likely that much rubbish was removed from the site at earlier periods.

Conclusions

The pattern of fish consumption does not appear to have changed from the beginning of the mid 12th and mid 18th century, a period in which saw the transition of the site from a suburban derelict wasteland to a intensely occupied part of the town. This remarkable discovery has been made possible because of a excavation strategy which included an extensive sampling program combined with well-defined phasing and archaeological interpretation.

Acknowledgements

The bulk of the samples were sorted by volunteers on the excavations in Norwich during periods of wet weather. We gratefully acknowledge the financial assistance of the Department of the Environment during the study.

References

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Jones, A. K. G. (1983). Fish remains. p. 32-34. In Ayers B. and Murphy P. A waterfront excavation at Whitefriars Street Car Park, Norwich, 1979. East Anglian Archaeology Report No. 17, p. 1-104.

() Kenward, H. K., Hall, A. R. and Jones, A. K. G. (1980). A tested set of techniques for the extraction of plant and animal macrofossils from waterlogged archaeological deposits. *Science and Archaeology*, 22, p. 3-15.

Wheeler, A. (1969). The fishes of the British Isles and north west Europe. Macmillan: London.

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Table 00

Measurements of whiting dentaries from Alms Lane, Norwich

| Context number | Measurement in mm | Approximate total length |
|----------------|----------------------|--------------------------|
| | | in cm |
| 1039 | 3.4 | 33 |
| 272 | 4.2 | 40 |
| 275 | 4.3 | 41 |
| 1520 | 3.2 | 31 |
| 1405 | 4.8 | 45 |
| 1488 | 4.3 | 41 |
| 1489 | 6.8 | 63 |
| 281 | 2.85 | 28 |
| 742 | 3.2 | 31 |
| 1296 | 3.2 | 31 |
| 272-860 | 5.1 | 47 |
| 34 | 2.8 | 28 |

The total length of whiting has been calculated by using the formula T.L.
 $= (M \times 8.93) + 2.49.$

Where T.L. = total length in centimetres, M = dentary depth in millimetres
 $, 8.93 =$ the slope of fig. 00, and $2.49 =$ the intercept of the regression
line in fig. 00.

The regression statistics and the correlation coefficient (r) were
calculated using the computer package STATPACK.

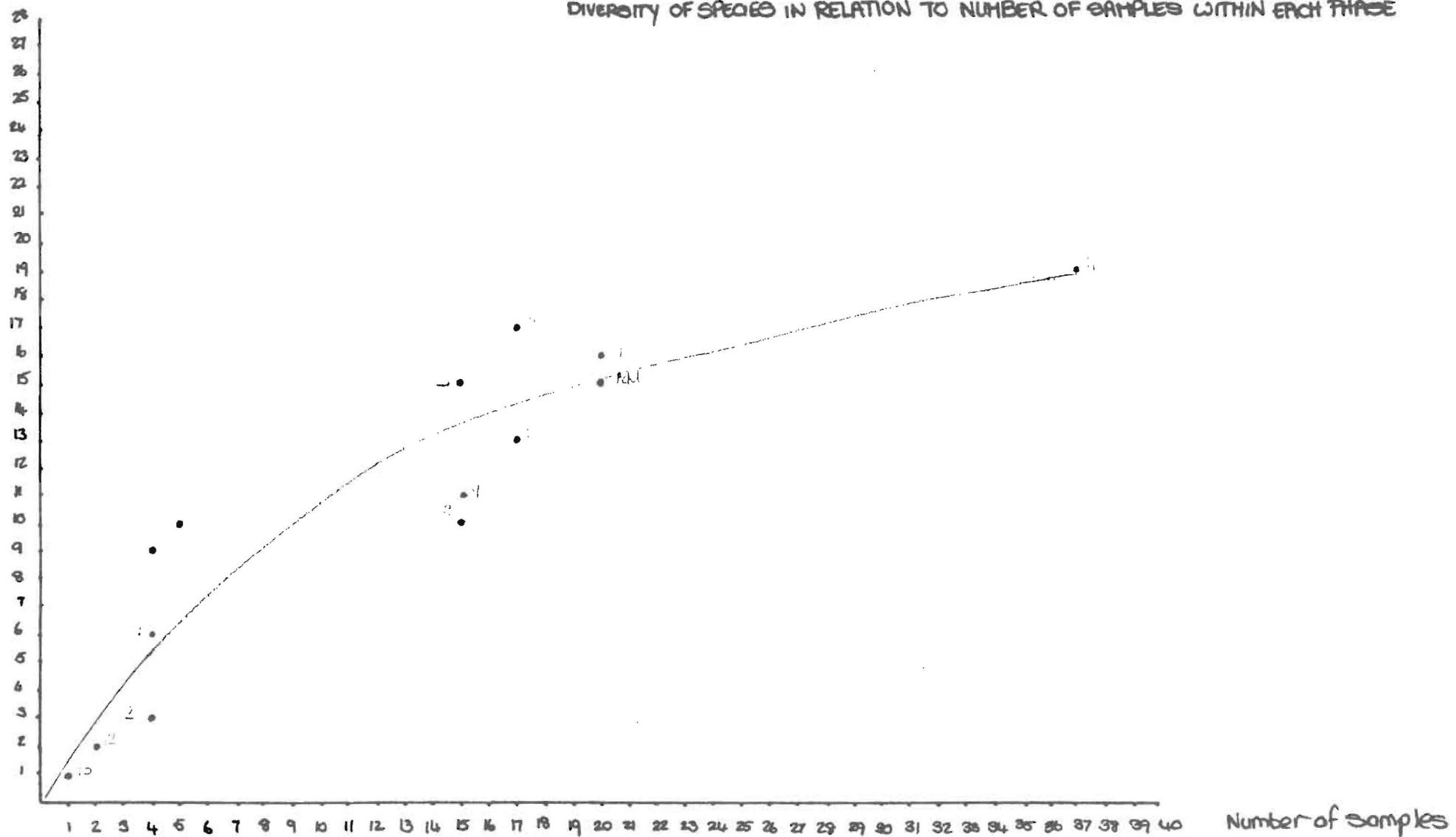
March, 1984

Number of species
taxa

FIG. 01

ALMS LANE - 302 N

DIVERSITY OF SPECIES IN RELATION TO NUMBER OF SAMPLES WITHIN EACH PHASE



302N

Table 01

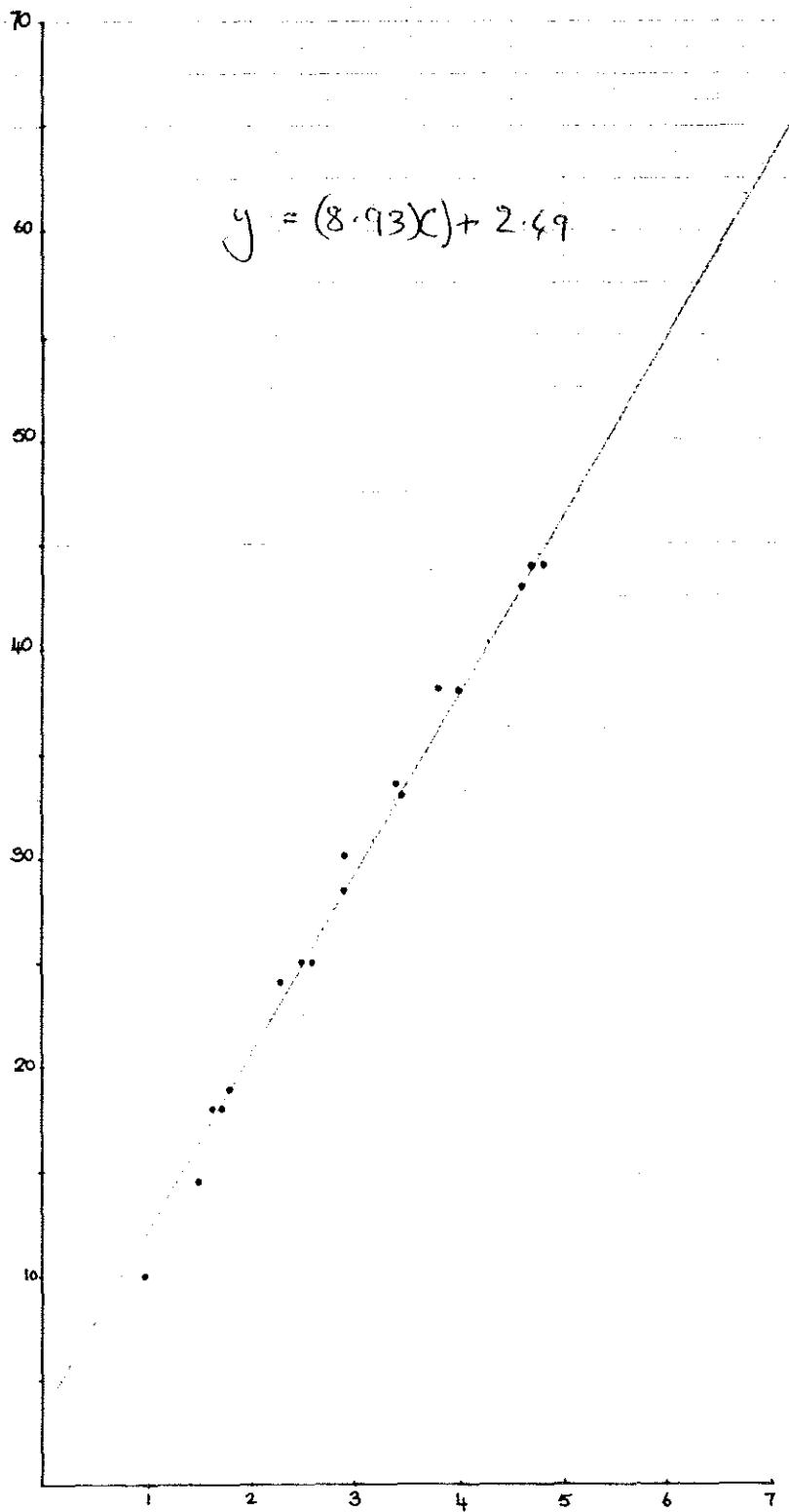
TOTAL NUMBER OF BONES FROM EACH PHASE

| Total Number of bones 3,315 | ELPH. BRANCH | SPUR DOG | THORNBACK RAY | CLOWN FISH | SPLAT | HERRING | SALMONIDAE | PIKE | CYPRINIDAE | TENCH | ROACH | EEL | CODIDAE | WHITING | COD | HADDOCK | LINQ. | PERCH | HORSE MACKEREL | MACKEREL | TRICLIDAE | STICKLEBACK | FLUROCONCIDAE | PLAICE | EGRE | |
|--------------------------------------|--------------|----------|---------------|------------|-------|---------|------------|------|------------|-------|-------|-----|---------|---------|-----|---------|-------|-------|----------------|----------|-----------|-------------|---------------|--------|------|--|
| PHASE 1 | | | | | | 14 | | | | | | 1 | | 2 | 8 | | | | | 2 | 1 | | | | | |
| PHASE 2 | 1 | | | | 1 | 34 | | | | | | | 1 | 1 | | 2 | 3 | | | 1 | | | | | | |
| PHASE 3 | 3 | | | | 8 | 168 | 1 | | | | | 11 | 1 | 10 | 16 | | | | 2 | 2 | 1 | | 6 | | | |
| PHASE 4 | 5 | 2 | 1 | 9 | 14 | 4 | 299 | 1 | 7 | 27 | 2 | 40 | 35 | 3 | | | | 1 | 5 | | 17 | 2 | 1 | 2 | | |
| | | | | | | | 195 | | 2 | | 9 | 12 | 11 | | | | | | 1 | 1 | | | | | | |
| PHASE 5 | 3 | | 1 | 2 | | 113 | | R? | 1 | | 10 | 1 | 72 | 14 | | 3 | | 1 | 1 | | 19 | 3 | 1 | | | |
| | | | | | | 8 | | | | | 2 | 11 | 2 | | | | | | | | | | | | | |
| PHASE 6 | 5 | | | 1 | | 131 | | | 1 | | 21 | 3 | 10 | 8 | | | | 1 | 2 | | 13 | | 2 | | | |
| | | | | 5 | | 14 | | | | | 1 | 2 | 2 | | | | | | | | | | | | | |
| PHASE 7 | 4 | 1 | 1 | 1 | 1 | 262 | | 1 | 7 | 36 | 6 | 16 | 22 | 1 | | | | 3 | | 8 | | 1 | 1 | | | |
| | | | | | | 90 | | | 1 | 2 | 1 | 7 | 2 | 1 | | | | | | | | | | | | |
| PHASE 8 | 1 | | | 4 | | 71 | | | | 2 | 11 | 12 | 9 | 1 | | | | 4 | | | 1 | | | | | |
| | | | | | | 1 | | | | 1 | 2 | 1 | 2 | | | | | | | | | | | | | |
| PHASE 9 | 3 | | | 5 | | 150 | | | 1 | 3 | 28 | 20 | 10 | 1 | | | | 5 | | | 12 | | | | | |
| | | | | | | 18 | | | | 3 | 3 | 1 | 4 | 1 | | | | | | | | | | | | |
| PHASE 10 | 5 | | | | 1 | 83 | | 3 | 2 | 3 | 3 | 2 | 1 | | | | | | | | 1 | | | 2 | | |
| | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| PHASE 11 | 8 | 1 | 1 | | 355 | | 1 | 3 | 1 | 2 | 24 | 2 | 3 | 6 | | | | 1 | 9 | 2 | 18 | | 1 | 4 | 1 | |
| | | | | | | 109 | | 1 | | 3 | 9 | 4 | 1 | 2 | 10 | | 3 | 2 | | | | | | | | |
| PHASE 12 | | | . | | | 1 | | | | | | | | | | | | | | | 1 | 2 | | | | |
| PHASE 13 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL-15 | 3 | | | | | 79 | 1 | 2 | 1 | | 23 | 2 | 7 | 6 | 3 | 1 | 1 | 1 | 1 | 2 | | 10 | | | | |
| | | | | | | 1 | | | | | 2 | | 1 | 2 | | | | | | | | | | | | |
| TOTAL | 47 | 3 | 43 | 121 | 276 | 1 | 7 | 28 | 4 | 20 | 212 | 30 | 233 | 184 | 12 | 5 | 8 | 1 | 42 | 1 | 1 | 118 | 4 | 7 | | |

RELATIONSHIP BETWEEN DENTARY DEPTH AND TOTAL LENGTH
OF FISH IN WHITING FROM NORWICH = 302 N.

Total Length of fish (cm)

$$y = (8.93)x + 2.69$$



Dentary depth (mm)

$r = 0.996$

* ALSO STURGEON, SHAD, SMELT, JOHN DORY, TURBOT - <11

CONGER EEL - 3.7%

+ Also sheet - 1.3%.

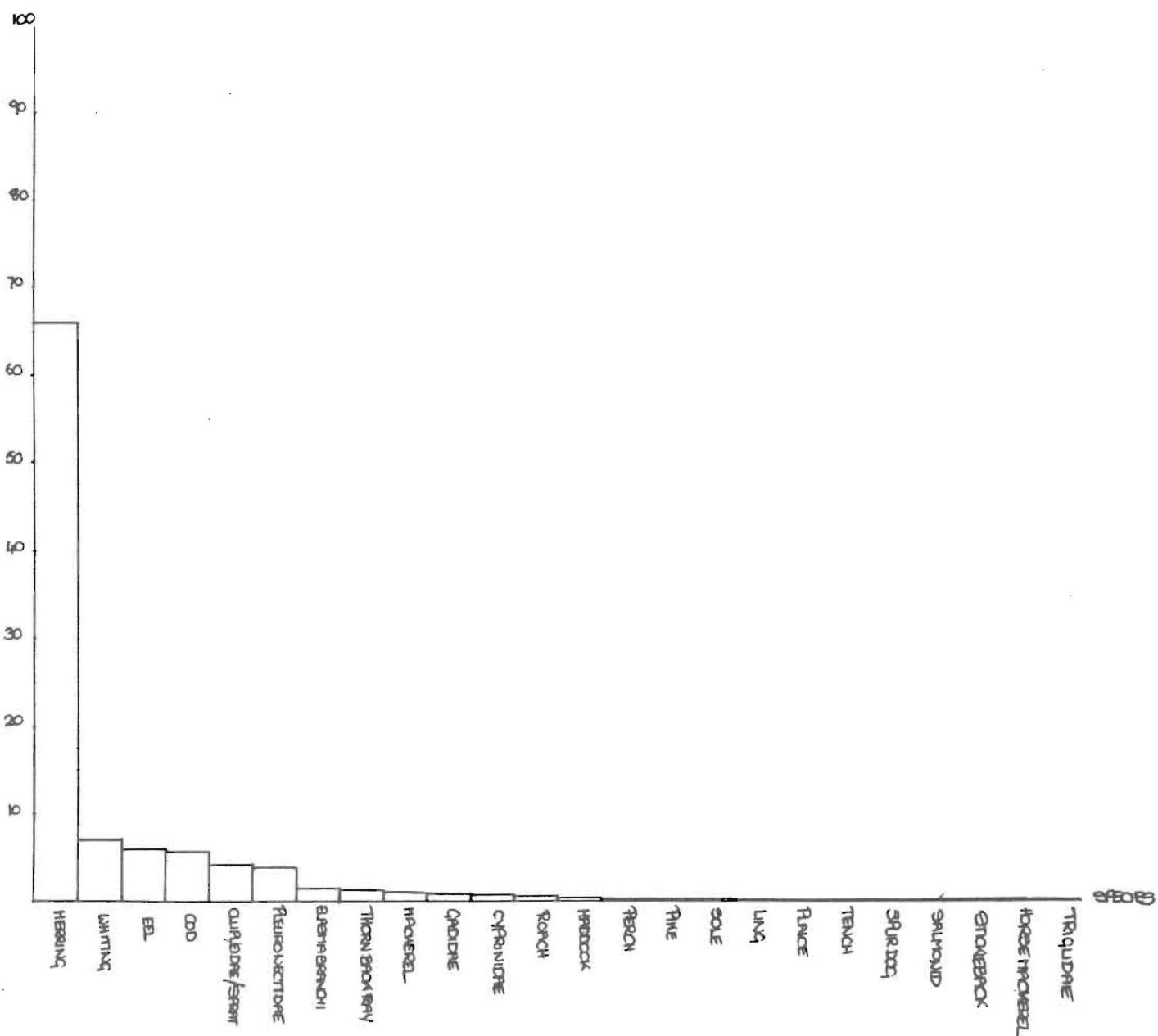
TABLE OC

% OF SPECIES FROM VARIOUS SITES

ALMS LANE 302 N

% OF SPECIES IN RANK ORDER OF ABUNDANCE

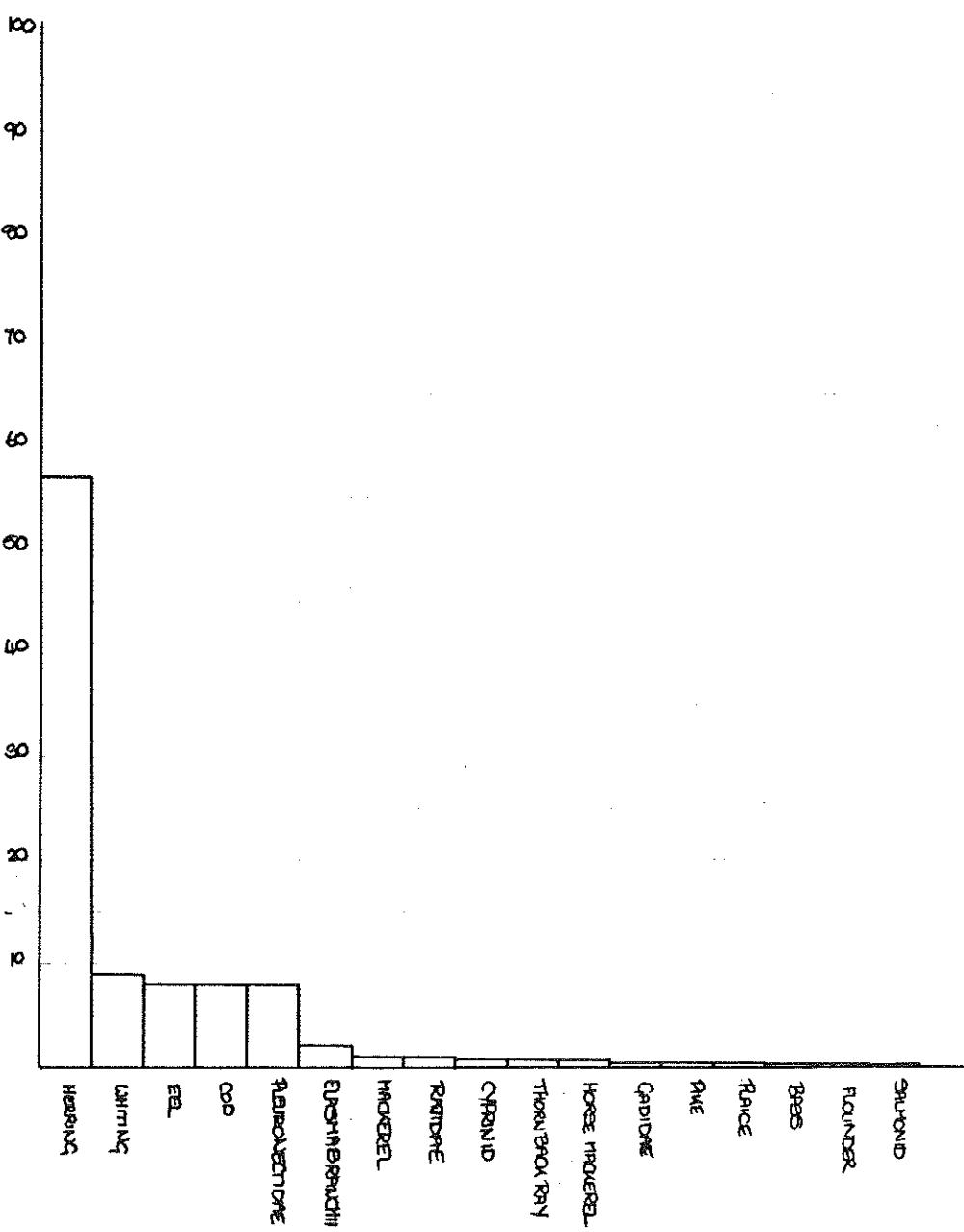
% OF TOTAL



WHITEFRIARGATE - NORWICH

% OF SPECIES IN RANK ORDER OF ABUNDANCE

% OF TOTAL

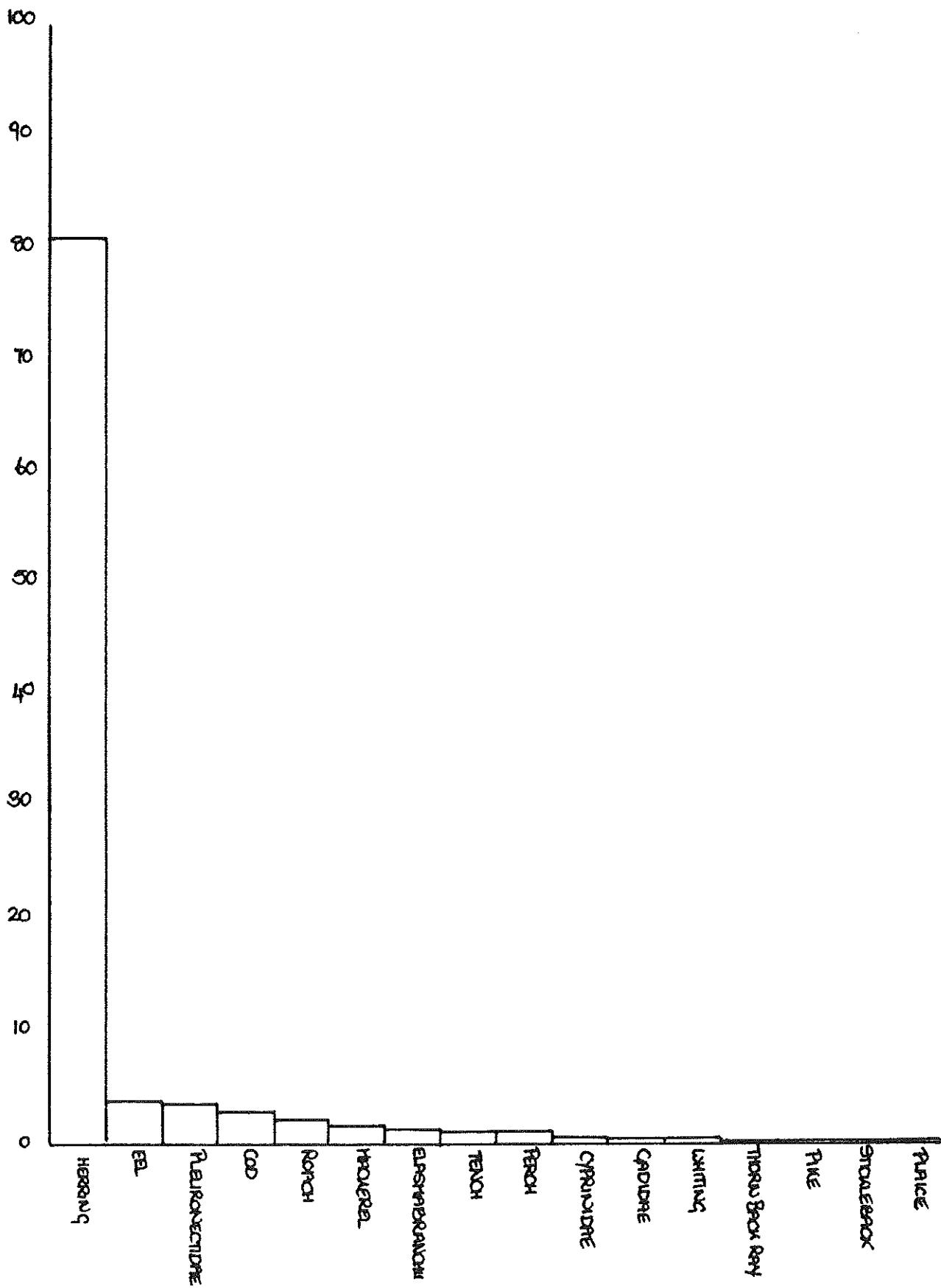


CONTEXT 84

262

SPECIES IN RANK ORDER OF ABUNDANCE

% OF TOTAL

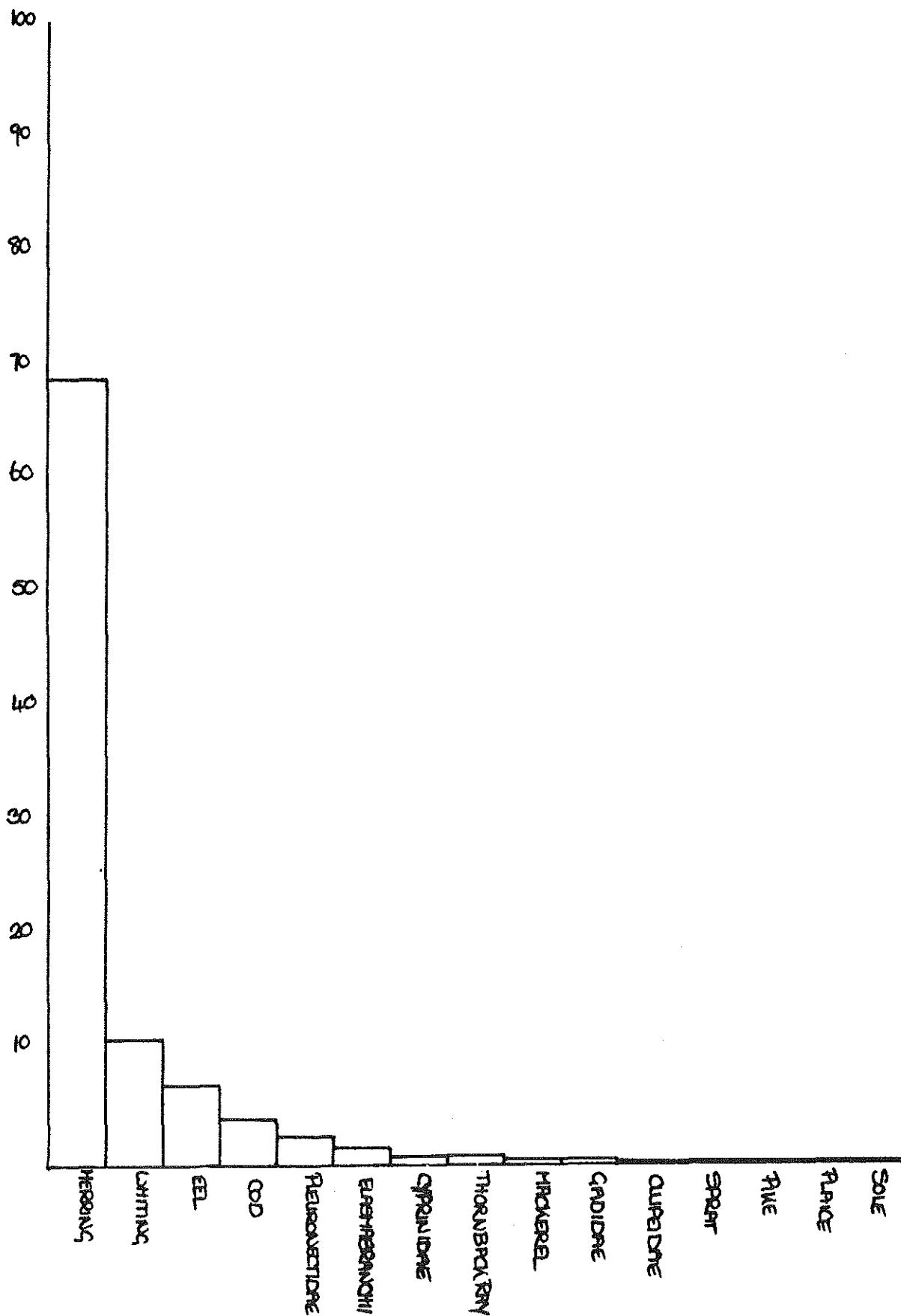


302 N

FLOORS ETC FROM TENEMENT A

SPECIES IN RANK ORDER OF ABUNDANCE

% OF TOTAL



| | | | | | | | | |
|----|----|-----|-------------------|--|----|------|----|-------------------------------|
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Gadus morhua L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Cyprinidae |
| 15 | 69 | 727 | DENTARY | | 1 | 20.5 | .0 | Anguilla anguilla (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 0 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 14 | .2 | .0 | Clupea harengus L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Scomber scombrus L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 1 | 4.5 | .0 | Esox lucius L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 4 | 4.0 | .0 | Pleuronectidae |
| 15 | 69 | 727 | PREMAXILLA | | 1 | 4.3 | .0 | Merlangius merlangus (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | | 2 | 4.6 | .0 | Merlangius merlangus (L.) |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 7 | .0 | .0 | Clupea harengus L. |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 1 | 5.0 | .0 | Melanogrammus aeglefinus (L.) |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | Pleuronectidae |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Pleuronectidae |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Gadus morhua L. |
| 15 | 76 | 728 | VERTEBRAL CENTRUM | | 0 | .0 | .0 | Clupea harengus L. |
| 15 | 76 | 728 | DERMAL OSTEICLE | | 1 | .0 | .0 | Raja clavata L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Cyprinidae |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | Clupea harengus L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 2 | 5.2 | .0 | Melanogrammus aeglefinus (L.) |
| 15 | 81 | 761 | PREOPERCULUM | | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | PREOPERCULUM | | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | | 2 | -3.0 | .0 | Pleuronectidae |

NOTES:

THE VALUE '0' HAS BEEN GIVEN TO THE COLUMN 'NUMBER' WHEN THE NUMBER OF FRAGMENTS WAS NOT COUNTED.

M1 = MEASUREMENT 1 IN MM FOR VERTEBRAE THIS IS THE MAXIMUM WIDTH OF THE ARTICULATING FACE OF THE CENTRUM.
OTHER BONES WERE MEASURED USING POINTS DESCRIBED BY ROSENBLUND AND MORALES (1979).

H2 = FOR VERTEBRAE THIS IS ALSO VERTEBRAL WIDTH (ONLY TAKEN WHEN MORE THAN ONE VERTEBRA IS PRESENT).
OTHER BONES WERE MEASURED USING POINTS GIVEN BY ROSENBLUND AND MORALES (1979).

MINUS VALUES: -2 = SMALL INDIVIDUAL
 -3 = MEDIUM SIZED INDIVIDUAL
 -4 = LARGE INDIVIDUAL

ANDREW R. C. JONES, 23/3/84.

ARCHIVE OF FISH BONE IDENTIFICATIONS FROM ALMS LANE, NORWICH

ORDERED BY PHASE

| PHASE | SAMPLE NUMBER | CONTEXT NUMBER | BONE | NUMBER | M1 | M2 | FISH NAME |
|-------|---------------|----------------|-------------------|--------|------|-----|---------------------------|
| 1 | 142 | 966 | VERTEBRAL CENTRUM | 7 | 18.2 | 7.1 | Gadus morhua L. |
| 1 | 142 | 966 | VERTEBRAL CENTRUM | 5 | .0 | .0 | Clupea harengus L. |
| 1 | 142 | 966 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Scomber scombrus L. |
| 1 | 142 | 966 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Merlangius merlangus (L.) |
| 1 | 187 | 966 | SPHENOID | 1 | -4.0 | .0 | Gadidae |
| 1 | 187 | 966 | VERTEBRAL CENTRUM | 8 | .0 | .0 | Clupea harengus L. |
| 1 | 187 | 966 | DERMAL DENTICLE | 1 | .0 | .0 | Scomber scombrus L. |
| 1 | 84 | 771 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 1 | 89 | 834 | VERTEBRAL CENTRUM | 1 | 8.5 | .0 | Gadus morhua L. |
| 1 | 89 | 834 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Clupea harengus L. |
| 2 | 104 | 873 | CRANIAL BONE | 3 | .0 | .0 | Gadus morhua L. |
| 2 | 104 | 873 | VERTEBRAL CENTRUM | 1 | 20.0 | .0 | Gadus morhua L. |
| 2 | 104 | 873 | VERTEBRAL CENTRUM | 1 | 10.0 | .0 | Gadus morhua L. |
| 2 | 104 | 873 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Elasmobranchii |
| 2 | 104 | 873 | VERTEBRAL CENTRUM | 21 | .0 | .0 | Clupea harengus L. |
| 2 | 104 | 873 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 2 | 131 | 834 | CRANIAL BONE | 1 | -4.0 | .0 | Gadidae |
| 2 | 131 | 884 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Clupea harengus L. |
| 2 | 131 | 884 | VERTEBRAL CENTRUM | 10 | .0 | .0 | Clupea harengus L. |
| 2 | 131 | 884 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 2 | 64 | 884/9 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 882 | PREMAXILLA | 1 | 17.0 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | 20.0 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 2 | -2.0 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | 13.1 | .0 | Gadus morhua L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | -2.0 | .0 | Elasmobranchii |
| 3 | 120 | 882 | CRANIAL BONE | 5 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 35 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 3 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 10 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 43 | .0 | .0 | Clupea harengus L. |
| 3 | 120 | 832 | DENTARY | 1 | .0 | .0 | Scomber scombrus L. |
| 3 | 120 | 882 | PREMAXILLA | 1 | .0 | .0 | Scomber scombrus L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 3 | 120 | 882 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 3 | 120 | 882 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 3 | 136 | 849 | PREMAXILLA | 1 | 14.5 | .0 | Gadus morhua L. |
| 3 | 136 | 849 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Gadus morhua L. |
| 3 | 136 | 849 | VERTEBRAL CENTRUM | 8 | .0 | .0 | Clupea harengus L. |
| 3 | 136 | 849 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 3 | 144 | 849 | VERTEBRAL CENTRUM | 3 | .0 | .0 | Clupea harengus L. |
| 3 | 144 | 849 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 3 | 162 | 1039 | CRANIAL BONE | 3 | .0 | .0 | Gadus morhua L. |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 3 | -4.0 | .0 | Gadus morhua L. |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 5 | .0 | .0 | Anguilla anguilla (L.) |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Elasmobranchii |
| 3 | 162 | 1039 | SCALE | 0 | .0 | .0 | Clupea harengus L. |
| 3 | 162 | 1039 | CRANIAL BONE | 0 | .0 | .0 | Clupea harengus L. |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 36 | .0 | .0 | Clupea harengus L. |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |

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|---|-----|-------|-------------------|----|------|-----|----------------------------------|
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 4 | -3.0 | .0 | Pleuronectidae |
| 3 | 162 | 1039 | DERMAL DENTICLE | 3 | .0 | .0 | <i>Raja clavata</i> L. |
| 3 | 162 | 1039 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 163 | 1039 | MAXILLA | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 163 | 1039 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 163 | 1039 | VERTEBRAL CENTRUM | 9 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 163 | 1039 | CRANIAL BONE | 1 | .0 | .0 | Triglidae |
| 3 | 164 | 886-8 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 3 | 164 | 886-8 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 166 | 1039 | VERTEBRAL CENTRUM | 1 | 12.0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 166 | 1039 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 166 | 1039 | DENTARY | 1 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 3 | 166 | 1039 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 3 | 166 | 1039 | VERTEBRAL CENTRUM | 8 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 166 | 1039 | DENTARY | 1 | 3.4 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 180 | 1080 | VERTEBRAL CENTRUM | 5 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 180 | 1086 | VERTEBRAL CENTRUM | 1 | 8.0 | .0 | Pleuronectidae |
| 3 | 180 | 1086 | VERTEBRAL CENTRUM | 1 | 10.5 | .0 | Salmonidae |
| 3 | 180 | 1086 | CRANIAL BONE | 1 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 180 | 1086 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 196 | 1078 | VERTEBRAL CENTRUM | 3 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 3 | 198 | 1084 | DERMAL DENTICLE | 1 | 9.3 | 7.9 | <i>Raja clavata</i> L. |
| 3 | 207 | 1454 | DERMAL DENTICLE | 1 | 21.0 | .0 | <i>Raja clavata</i> L. |
| 3 | 229 | 1497 | PREMAXILLA | 1 | -4.0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 229 | 1497 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 229 | 1497 | DERMAL DENTICLE | 1 | .0 | .0 | <i>Raja clavata</i> L. |
| 3 | 242 | 1504 | PHARYNGEAL TOOTH | 1 | -4.0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 242 | 1504 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 3 | 242 | 1504 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Elasmobranchii</i> |
| 3 | 242 | 1504 | VERTEBRAL CENTRUM | 3 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 242 | 1504 | MAXILLA | 1 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 242 | 1504 | VERTEBRAL CENTRUM | 4 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 3 | 243 | 1511 | VERTEBRAL CENTRUM | 1 | 16.4 | .0 | <i>Gadus morhua</i> L. |
| 3 | 243 | 1511 | OTIC BULLA | 1 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 243 | 1511 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Clupea harengus</i> L. |
| 3 | 243 | 1511 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Pleuronectidae |
| 4 | 0 | 542 | DORSAL SPINE | 1 | -3.0 | .0 | <i>Squalus acanthias</i> (L.) |
| 4 | 102 | 869 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 102 | 869 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 102 | 869 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 103 | 871 | VERTEBRAL CENTRUM | 1 | -2.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 103 | 871 | VERTEBRAL CENTRUM | 2 | -4.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 103 | 871 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 106 | 272 | PARASPHENOID | 1 | -4.0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 1 | 6.9 | .0 | <i>Gadus morhua</i> L. |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 106 | 272 | CRANIAL BONE | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 1 | 6.5 | .0 | <i>Elasmobranchii</i> |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 16 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 106 | 272 | DENTARY | 1 | 4.2 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 106 | 272 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 111 | 470 | VERTEBRAL CENTRUM | 1 | 19.0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 111 | 470 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 111 | 470 | VERTEBRAL CENTRUM | 1 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 113 | 481 | VERTEBRAL CENTRUM | 3 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 126 | 917 | PARASPHENOID | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 126 | 917 | CRANIAL BONE | 1 | .0 | .0 | <i>Gadus morhua</i> L. |
| 4 | 126 | 917 | VERTEBRAL CENTRUM | 12 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 126 | 917 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Pleuronectidae |

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| 4 | 126 | 917 | DERMAL DENTICLE | 4 | .0 | .0 | Raja clavata L. |
| 4 | 126 | 917 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 138 | 275 | VERTEBRAL CENTRUM | 1 | 11.2 | .0 | Gadus morhua L. |
| 4 | 138 | 275 | VERTEBRAL CENTRUM | 1 | 20.0 | .0 | Gadus morhua L. |
| 4 | 138 | 275 | VERTEBRAL CENTRUM | 15 | .0 | .0 | Clupea harengus L. |
| 4 | 138 | 275 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 4 | 138 | 275 | DENTARY | 1 | 4.3 | .0 | Merlangius merlangus (L.) |
| 4 | 138 | 275 | VERTEBRAL CENTRUM | 4 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 143 | 987 | PHARYNGEAL TOOTH | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 143 | 987 | VERTEBRAL CENTRUM | 3 | .0 | .0 | Clupea harengus L. |
| 4 | 143 | 987 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 4 | 143 | 987 | VERTEBRAL CENTRUM | 1 | 4.4 | .0 | Esox lucius L. |
| 4 | 143 | 987 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 145 | 987 | CLEITHRUM | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 145 | 987 | VERTEBRAL CENTRUM | 3 | .0 | .0 | Clupea harengus L. |
| 4 | 145 | 987 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 149 | 1007 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Clupea harengus L. |
| 4 | 149 | 1007 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Pleuronectidae |
| 4 | 150 | 492 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 4 | 150 | 492 | VERTEBRAL CENTRUM | 13 | .0 | .0 | Clupea harengus L. |
| 4 | 150 | 492 | VERTEBRAL CENTRUM | 1 | -2.0 | .0 | Pleuronectidae |
| 4 | 150 | 492 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 150 | 492 | VOMER | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 156 | 492 | BRANCHIOSTEGAL RAY | 1 | -4.0 | .0 | Gadidae |
| 4 | 156 | 492 | VERTEBRAL CENTRUM | 13 | .0 | .0 | Clupea harengus L. |
| 4 | 157 | 478 | VERTEBRAL CENTRUM | 1 | 13.0 | .0 | Gadus morhua L. |
| 4 | 157 | 478 | VERTEBRAL CENTRUM | 7 | .0 | .0 | Clupea harengus L. |
| 4 | 157 | 478 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Pleuronectidae |
| 4 | 158 | 478 | DENTARY | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 158 | 478 | VERTEBRAL CENTRUM | 6 | -2.0 | -4.0 | Gadus morhua L. |
| 4 | 158 | 478 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Elasmobranchii |
| 4 | 158 | 478 | CRANIAL BONE | 1 | .0 | .0 | Clupea harengus L. |
| 4 | 158 | 478 | VERTEBRAL CENTRUM | 11 | .0 | .0 | Clupea harengus L. |
| 4 | 158 | 478 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Pleuronectidae |
| 4 | 158 | 478 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 4 | 195 | 1405 | VERTEBRAL CENTRUM | 1 | -4.0 | .0 | Gadus morhua L. |
| 4 | 195 | 1405 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 4 | 195 | 1405 | CRANIAL BONE | 2 | .0 | .0 | Clupea harengus L. |
| 4 | 195 | 1405 | VERTEBRAL CENTRUM | 6 | .0 | .0 | Clupea harengus L. |
| 4 | 195 | 1405 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 4 | 195 | 1405 | DENTARY | 1 | 4.8 | .0 | Merlangius merlangus (L.) |
| 4 | 195 | 1405 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 219 | 1803 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 220 | 1487 | ARTICULAR | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 220 | 1487 | VERTEBRAL CENTRUM | 1 | 9.7 | .0 | Gadus morhua L. |
| 4 | 220 | 1487 | CRANIAL BONE | 2 | .0 | .0 | Clupea harengus L. |
| 4 | 220 | 1487 | VERTEBRAL CENTRUM | 4 | .0 | .0 | Clupea harengus L. |
| 4 | 220 | 1487 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 221 | 1488 | BRANCHIOSTEGAL RAY | 0 | .0 | .0 | Gadus morhua L. |
| 4 | 221 | 1488 | CLEITHRUM | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 221 | 1488 | FIN RAY | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 221 | 1488 | VERTEBRAL CENTRUM | 1 | 11.2 | .0 | Gadus morhua L. |
| 4 | 221 | 1488 | VERTEBRAL CENTRUM | 1 | 8.2 | .0 | Gadus morhua L. |
| 4 | 221 | 1488 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 4 | 221 | 1488 | VERTEBRAL CENTRUM | 23 | .0 | .0 | Clupea harengus L. |
| 4 | 221 | 1488 | BASIOCCIPITAL | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 221 | 1488 | DENTARY | 1 | 4.3 | .0 | Merlangius merlangus (L.) |
| 4 | 221 | 1488 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 222 | 1489 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Gadus morhua L. |
| 4 | 222 | 1489 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Clupea harengus L. |

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| 4 | 222 | 1489 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Melanogrammus aeglefinus (L.) |
| 4 | 222 | 1489 | DENTARY | 1 | 6.8 | .0 | Merlangius merlangus (L.) |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 6 | -4.0 | .0 | Gadus morhua L. |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 1 | 3.4 | .0 | Elasmobranchii |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 24 | .0 | .0 | Clupea harengus L. |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 1 | 9.5 | .0 | Melanogrammus aeglefinus (L.) |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Pleuronectidae |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 223 | 1490 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 224 | 1479 | BRANCHIOSTEGAL RAY | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 224 | 1479 | PHARYNGEAL TOOTH | 1 | .0 | .0 | Gadus morhua L. |
| 4 | 224 | 1479 | VERTEBRAL CENTRUM | 5 | -4.0 | .0 | Gadus morhua L. |
| 4 | 224 | 1479 | VERTEBRAL CENTRUM | 14 | .0 | .0 | Clupea harengus L. |
| 4 | 224 | 1479 | VERTEBRAL CENTRUM | 1 | -2.0 | .0 | Pleuronectidae |
| 4 | 224 | 1479 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Pleuronectidae |
| 4 | 224 | 1479 | ARTICULAR | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 224 | 1479 | DENTARY | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 224 | 1479 | MAXILLA | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 224 | 1479 | CRANIAL BONE | 0 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 224 | 1479 | VERTEBRAL CENTRUM | 7 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 225 | 1484 | CERATOHYAL | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 225 | 1484 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 225 | 1484 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 226 | 1492 | VERTEBRAL CENTRUM | 2 | -2.0 | .0 | Gadus morhua L. |
| 4 | 226 | 1492 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 4 | 226 | 1492 | VERTEBRAL CENTRUM | 7 | .0 | .0 | Clupea harengus L. |
| 4 | 226 | 1492 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Merlangius merlangus (L.) |
| 4 | 228 | 1486 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 241 | 1520 | QUADRATE | 1 | 3.8 | .0 | ?Rutilus rutilus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | 1.5 | .0 | ?Sprattus sprattus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 3 | 1.9 | .0 | ?Sprattus sprattus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 14 | 2.0 | 1.4 | ?Sprattus sprattus (L.) |
| 4 | 241 | 1520 | CLEITHRUM | 1 | -2.0 | .0 | Cyprinidae |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 3 | 2.7 | 1.9 | Cyprinidae |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 3 | 2.1 | 2.2 | Anguilla anguilla (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 8 | -3.0 | .0 | Anguilla anguilla (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 2 | 5.2 | .0 | Elasmobranchii |
| 4 | 241 | 1520 | INTERMUSCULAR BONE | 1 | -4.0 | .0 | Gadidae |
| 4 | 241 | 1520 | ARTICULAR | 1 | -3.0 | 1.5 | Clupea harengus L. |
| 4 | 241 | 1520 | ARTICULAR | 7 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | ARTICULAR | 6 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | CERATOHYAL | 1 | 13.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | CERATOHYAL | 15 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | CLEITHRUM | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | CLEITHRUM | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | DENTARY | 7 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | DENTARY | 7 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | ETHMOID | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | EPIHYAL | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | EPIHYAL | 6 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | EPIHYAL | 6 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | EPIHYAL | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | HYOMANDIBULAR | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | HYOMANDIBULAR | 14 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | MAXILLA | 8 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | MAXILLA | 8 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | OPERCULUM | 1 | 2.1 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | OPERCULUM | 11 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | OPERCULUM | 8 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | POST CLEITHRUM | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | POST CLEITHRUM | 5 | -3.0 | .0 | Clupea harengus L. |

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| 4 | 241 | 1520 | PREOPERCULUM | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | PREOPERCULUM | 9 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | PREOPERCULUM | 8 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | POST TEMPORAL | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | QUADRATE | 7 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | QUADRATE | 3 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | SCALE | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | SCALE | 18 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | SUBOPERCULUM | 6 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | SUBOPERCULUM | 9 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | UROHYAL | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 4 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 3 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | 2.6 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | 3.6 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 40 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 39 | -3.0 | .0 | Clupea harengus L. |
| 4 | 241 | 1520 | SCUTE | 1 | -3.0 | .0 | Trachurus trachurus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Scomber scombrus L. |
| 4 | 241 | 1520 | VOMER | 1 | -3.0 | .0 | Pleuronectes platessa L. |
| 4 | 241 | 1520 | BASIOCCIPITAL | 1 | 4.9 | .0 | Pleuronectidae |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 2 | 2.1 | 3.9 | Pleuronectidae |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Solea solea (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | 3.4 | .0 | Solea solea (L.) |
| 4 | 241 | 1520 | DENTARY | 1 | 3.2 | .0 | Merlangius merlangus (L.) |
| 4 | 241 | 1520 | QUADRATE | 1 | 3.4 | .0 | Merlangius merlangus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 241 | 1520 | VERTEBRAL CENTRUM | 1 | 4.3 | .0 | Merlangius merlangus (L.) |
| 4 | 244 | 552 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Cyprinidae |
| 4 | 244 | 552 | VERTEBRAL CENTRUM | 6 | .0 | .0 | Clupea harengus L. |
| 4 | 244 | 552 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 4 | 245 | 1535 | VERTEBRAL CENTRUM | 1 | 16.8 | .0 | Gadus morhua L. |
| 4 | 245 | 1535 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Clupea harengus L. |
| 4 | 247 | 1565 | VERTEBRAL CENTRUM | 1 | 2.3 | .0 | Cyprinidae |
| 4 | 248 | 1563 | DERMAL DENTICLE | 1 | 10.4 | 2.6 | Raja clavata L. |
| 4 | 249 | 552 | INFERIOR PHARYNGEAL | 1 | -4.0 | .0 | Gadidae |
| 4 | 249 | 552 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 249 | 552 | VERTEBRAL CENTRUM | 1 | 3.7 | .0 | Clupea harengus L. |
| 4 | 249 | 552 | PREMAXILLA | 1 | -3.0 | .0 | Pleuronectidae |
| 4 | 251 | 1639 | DERMAL DENTICLE | 1 | .0 | .0 | Elasmobranchii |
| 4 | 251 | 1639 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 251 | 1639 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Pleuronectidae |
| 4 | 251 | 1639 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 282 | 1883 | ARTICULAR | 1 | -4.0 | .0 | Gadidae |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Anguilla anguilla (L.) |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 2 | 1.7 | 2.2 | Anguilla anguilla (L.) |
| 4 | 283 | 2165 | CLEITHRUM | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 283 | 2165 | OTIC BULLA | 1 | -3.0 | .0 | Clupea harengus L. |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Clupea harengus L. |
| 4 | 283 | 2165 | MAXILLA | 1 | -3.0 | .0 | Scomber scombrus L. |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Scomber scombrus L. |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 1 | 5.2 | .0 | Merlangius merlangus (L.) |
| 4 | 283 | 2165 | VERTEBRAL CENTRUM | 1 | -3.0 | .0 | Merlangius merlangus (L.) |
| 4 | 283 | 2165 | PREMAXILLA | 1 | -2.0 | .0 | Cyprinidae |
| 4 | 287 | 2166 | VERTEBRAL CENTRUM | 2 | 1.8 | 2.1 | Cyprinidae |
| 4 | 287 | 2166 | VERTEBRAL CENTRUM | 3 | -3.0 | .0 | Anguilla anguilla (L.) |
| 4 | 287 | 2166 | DERMAL DENTICLE | 1 | -3.0 | .0 | Elasmobranchii |
| 4 | 287 | 2166 | GILL RAKER | 2 | -4.0 | .0 | Gadidae |

| | | | | | | | | |
|---|-----|-------|--------------------|--|----|------|------|----------------------------------|
| 4 | 287 | 2166 | PARASPHENOID | | 1 | -4.0 | .0 | Gadidae |
| 4 | 287 | 2166 | TOOTH | | 2 | -4.0 | .0 | Gadidae |
| 4 | 287 | 2166 | BASIOCCIPITAL | | 1 | 3.5 | .0 | <i>Clupea harengus</i> L. |
| 4 | 287 | 2166 | VERTEBRAL CENTRUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 287 | 2166 | VERTEBRAL CENTRUM | | 2 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 287 | 2166 | VERTEBRAL CENTRUM | | 1 | -3.0 | .0 | Pleuronectidae |
| 4 | 288 | 2172 | VERTEBRAL CENTRUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 288 | 2172 | VERTEBRAL CENTRUM | | 1 | 4.5 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 288 | 2172 | VERTEBRAL CENTRUM | | 2 | -3.0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 4 | 289 | 2176 | QUADRATE | | 1 | 1.5 | .0 | <i>Clupea harengus</i> L. |
| 4 | 291 | 2191 | VERTEBRAL CENTRUM | | 1 | 1.2 | .0 | Pleuronectidae |
| 4 | 293 | 2172 | VERTEBRAL CENTRUM | | 1 | -3.0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 4 | 293 | 2172 | VERTEBRAL CENTRUM | | 3 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 293 | 2172 | VERTEBRAL CENTRUM | | 2 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 293 | 2172 | VERTEBRAL CENTRUM | | 1 | -3.0 | .0 | <i>Scomber scombrus</i> L. |
| 4 | 68 | 929/8 | VERTEBRAL CENTRUM | | 4 | .0 | .0 | <i>Clupea harengus</i> L. |
| 4 | 68 | 929/8 | VERTEBRAL CENTRUM | | 1 | 9.1 | .0 | Pleuronectidae |
| 5 | 0 | 478 | DORSAL SPINE | | 1 | -3.0 | .0 | <i>Squalus acanthias</i> (L.) |
| 5 | 105 | 428 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 5 | 105 | 428 | BRANCHIOSTEGAL RAY | | 1 | -4.0 | .0 | Gadidae |
| 5 | 105 | 428 | CRANIAL BONE | | 2 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 105 | 428 | VERTEBRAL CENTRUM | | 3 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 6 | 5.2 | 19.0 | <i>Gadus morhua</i> L. |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 1 | 5.8 | .0 | <i>Elasmobranchii</i> |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 15 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 2 | -4.0 | .0 | Pleuronectidae |
| 5 | 135 | 936 | VERTEBRAL CENTRUM | | 3 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 5 | 140 | 975 | VERTEBRAL CENTRUM | | 1 | 17.3 | .0 | <i>Gadus morhua</i> L. |
| 5 | 140 | 975 | VERTEBRAL CENTRUM | | 7 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 182 | 1080 | VERTEBRAL CENTRUM | | 1 | -4.0 | .0 | <i>Gadus morhua</i> L. |
| 5 | 182 | 1080 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | <i>Elasmobranchii</i> |
| 5 | 182 | 1080 | VERTEBRAL CENTRUM | | 11 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 182 | 1080 | VERTEBRAL CENTRUM | | 7 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 5 | 197 | 1083 | VERTEBRAL CENTRUM | | 1 | -4.0 | .0 | <i>Gadus morhua</i> L. |
| 5 | 197 | 1083 | VERTEBRAL CENTRUM | | 2 | .0 | .0 | <i>Anguilla anguilla</i> (L.) |
| 5 | 197 | 1083 | SCALE | | 1 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 197 | 1083 | CRANIAL BONE | | 2 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 197 | 1083 | VERTEBRAL CENTRUM | | 19 | .0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 197 | 1083 | VERTEBRAL CENTRUM | | 1 | .0 | .0 | <i>Scomber scombrus</i> L. |
| 5 | 197 | 1083 | VERTEBRAL CENTRUM | | 4 | .0 | .0 | <i>Merlangius merlangus</i> (L.) |
| 5 | 284 | 2167 | DERMAL DENTICLE | | 1 | .0 | .0 | <i>Elasmobranchii</i> |
| 5 | 284 | 2167 | HYOMANDIBULAR | | 1 | -4.0 | .0 | Gadidae |
| 5 | 284 | 2167 | VERTEBRAL CENTRUM | | 1 | -4.0 | .0 | <i>Gadidae</i> |
| 5 | 284 | 2167 | ARTICULAR | | 2 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | CERATOHYAI | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | DENTARY | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | EPIHYAL | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | HYOMANDIBULAR | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | MAXILLA | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | MAXILLA | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | OPERCULUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | POST CLEITHRUM | | 2 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | POST CLEITHRUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | PREOPERCULUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | QUADRATE | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | SUBOPERCULUM | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | UROHYAL | | 1 | -3.0 | .0 | <i>Clupea harengus</i> L. |
| 5 | 284 | 2167 | VERTEBRAL CENTRUM | | 6 | -3.0 | .0 | <i>Clupea harengus</i> L. |

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|----|-------|-------|------------------------|----|------|-----|---------------------------|
| 11 | 25-28 | 34/B5 | CRANIAL BONE | 0 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B4 | CRANIAL BONE | 4 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B1 | CRANIAL BONE | 4 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B6 | CRANIAL BONE | 3 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 15 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 3 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B5 | VERTEBRAL CENTRUM | 15 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 22 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B4 | VERTEBRAL CENTRUM | 7 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B3 | VERTEBRAL CENTRUM | 6 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B7 | VERTEBRAL CENTRUM | 26 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B2 | VERTEBRAL CENTRUM | 6 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 32 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B8 | VERTEBRAL CENTRUM | 42 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B6 | VERTEBRAL CENTRUM | 12 | .0 | .0 | Clupea harengus L. |
| 11 | 25-28 | 34/B8 | PREMAXILLA | 1 | .0 | .0 | Scomber scombrus L. |
| 11 | 25-28 | 34/B3 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 11 | 25-28 | 34/B7 | VERTEBRAL CENTRUM | 3 | 4.7 | .0 | Scomber scombrus L. |
| 11 | 25-28 | 34/B8 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 11 | 25-28 | 34/B9 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Scomber scombrus L. |
| 11 | 25-28 | 34/B9 | PREOPERCULUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 11 | 25-28 | 34/B1 | PREOPERCULUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 11 | 25-28 | 34/B7 | VERTEBRAL CENTRUM | 1 | 10.0 | .0 | Esox lucius L. |
| 11 | 25-28 | 34/B3 | DENTARY | 1 | .0 | .0 | Pleuronectes platessa L. |
| 11 | 25-28 | 34/B9 | ANAL PTERYGIOPHORE | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B8 | HYAL | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B9 | HYAL | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B8 | MAXILLA | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B7 | VERTEBRAL CENTRUM | 1 | 5.3 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B7 | VERTEBRAL CENTRUM | 1 | 5.2 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B5 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Pleuronectidae |
| 11 | 25-28 | 34/B8 | VERTEBRAL CENTRUM | 7 | 4.7 | 2.6 | Pleuronectidae |
| 11 | 25-28 | 34/12 | PHARYNGEAL BONE | 1 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B1 | PHARYNGEAL BONE | 1 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B1 | PHARYNGEAL BONE | 1 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B8 | PHARYNGEAL BONE | 1 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B1 | PHARYNGEAL BONE | 3 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Rutilus rutilus (L.) |
| 11 | 25-28 | 34/B7 | SCUTE | 1 | .0 | .0 | Gasterosteus aculeatus L. |
| 11 | 25-28 | 34/B8 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 11 | 25-28 | 34/B2 | PHARYNGEAL BONE | 3 | .0 | .0 | Tinca tinca (L.) |
| 11 | 25-28 | 34/B2 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Tinca tinca (L.) |
| 11 | 25-28 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Merlangius merlangus (L.) |
| 11 | 32 | 34/B2 | CLEITHRUM | 1 | .0 | .0 | Gadus morhua L. |
| 11 | 32 | 34/B2 | POST TEMPORAL | 1 | .0 | .0 | Gadus morhua L. |
| 11 | 32 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 11 | 32 | 34/B1 | CRANIAL BONE | 0 | .0 | .0 | Gadidae |
| 11 | 32 | 34/B1 | CRANIAL BONE | 3 | .0 | .0 | Clupea harengus L. |
| 11 | 32 | 34/B2 | CRANIAL BONE | 1 | .0 | .0 | Clupea harengus L. |
| 11 | 32 | 34/B2 | VERTEBRAL CENTRUM | 8 | .0 | .0 | Clupea harengus L. |
| 11 | 32 | 34/B1 | VERTEBRAL CENTRUM | 25 | .0 | .0 | Clupea harengus L. |
| 11 | 32 | 34/B1 | MAXILLA | 1 | .0 | .0 | Perca fluviatilis L. |
| 11 | 32 | 34/B2 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 11 | 42 | 34/B1 | INDETERMINATE FRAGMENT | 2 | .0 | .0 | Gadus morhua L. |
| 11 | 42 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 11 | 42 | 34/B1 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Anguilla anguilla (L.) |
| 11 | 42 | 34/B1 | FIN RAY | 0 | .0 | .0 | Gadidae |
| 11 | 42 | 34/B1 | INDETERMINATE FRAGMENT | 5 | .0 | .0 | Clupea harengus L. |
| 11 | 42 | 34/B1 | CRANIAL BONE | 12 | .0 | .0 | Clupea harengus L. |

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|----|----|-----|-------------------|----|------|----|-------------------------------|
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Cyprinidae |
| 15 | 69 | 727 | DENTARY | 1 | 20.5 | .0 | Anguilla anguilla (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 8 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 14 | .0 | .0 | Clupea harengus L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Scomber scombrus L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 1 | 4.5 | .0 | Esox lucius L. |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 4 | 4.8 | .0 | Pleuronectidae |
| 15 | 69 | 727 | PREMAXILLA | 1 | 4.3 | .0 | Merlangius merlangus (L.) |
| 15 | 69 | 727 | VERTEBRAL CENTRUM | 2 | 4.6 | .0 | Merlangius merlangus (L.) |
| 15 | 70 | 728 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 70 | 728 | VERTEBRAL CENTRUM | 7 | .0 | .0 | Clupea harengus L. |
| 15 | 70 | 728 | VERTEBRAL CENTRUM | 1 | 5.0 | .0 | Melanogrammus aeglefinus (L.) |
| 15 | 70 | 728 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Pleuronectidae |
| 15 | 70 | 728 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Pleuronectidae |
| 15 | 76 | 753 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Gadus morhua L. |
| 15 | 76 | 753 | VERTEBRAL CENTRUM | 6 | .0 | .0 | Clupea harengus L. |
| 15 | 76 | 753 | DERMAL DENTICLE | 1 | .0 | .0 | Raja clavata L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Cyprinidae |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Anguilla anguilla (L.) |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 2 | .0 | .0 | Clupea harengus L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 2 | 5.2 | .0 | Melanogrammus aeglefinus (L.) |
| 15 | 81 | 761 | PREOPERCULUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | PREOPERCULUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 1 | .0 | .0 | Perca fluviatilis L. |
| 15 | 81 | 761 | VERTEBRAL CENTRUM | 2 | -3.0 | .0 | Pleuronectidae |

NOTES:

THE VALUE '0' HAS BEEN GIVEN TO THE COLUMN 'NUMBER' WHEN THE NUMBER OF FRAGMENTS WAS NOT COUNTED.

M1 = MEASUREMENT 1 IN MM FOR VERTEBRAE THIS IS THE MAXIMUM WIDTH OF THE ARTICULATING FACE OF THE CENTRUM.
OTHER BONES WERE MEASURED USING POINTS DESCRIBED BY ROSENBLUND AND MORALES (1979).

M2 = FOR VERTEBRAE THIS IS ALSO VERTEBRAL WIDTH (ONLY TAKEN WHEN MORE THAN ONE VERTEBRA IS PRESENT).
OTHER BONES WERE MEASURED USING POINTS GIVEN BY ROSENBLUND AND MORALES (1979).

MINUS VALUES: -2 = SMALL INDIVIDUAL
-3 = MEDIUM SIZED INDIVIDUAL
-4 = LARGE INDIVIDUAL

ANDREW K. G. JONES, 23/3/84.