Documentation Guide for 'ENV2_' data tables

The 'ENV2_' tables as listed below contain animal bone data:

ENV2_ABONE.tab (parent table)
ENV2_ABONE_MEAS.tab
ENV2_ABONE_STATE.tab
ENV2_ABONE_TEETH.tab
ENV2_ABONE_ZONES.tab

(See PART C below for the table relationships)

PART A) Table descriptions

1) ENV2_ABONE.tab

Description: overall animal bone catalogue

Field name	Description
SITECODE	Site code
CONTEXT	Context number
SAMPLE	Sample Number?
BONE_NO	Bone number
BONE	Bone
SPEC	Species
PAR	Bone Part
PROP	Unknown[1]
FRAG_COUNT	Fragment count
WEIGHT	Weight
S	Side
AG	Age
S	Sex
CARCAS_PART_NO	Carcass part number?
FU	Fusion Distal_Posterior
FU	Fusion Proximal_Anterior
COMMENTS	Comments
SIEVE_SIZE	Sieve mesh size
OBJECTID	Object ID number (primary key)
SITE_C	Site code and context number combined

The 'Comments' field contains undocumented coded/abbreviated information. Other codes that appear in this table and their expansions are documented in PART B below.

2) ENV2_ABONE_MEAS.tab

Description: animal bone measurements

Field name	Description
SITECODE	Site code
BONE_NO	Bone number
BONE	Bone measurement number (measurements based on von den Driesch 1976)[2]

[1] No documentation has been located for the 'PROP' field. Entries in this field = a number between 1 and 5.

MEAS Measurement (in mm)

See PART B below for bone codes and their expansions.

3) ENV2_ABONE_STATE.tab

Description: animal bone condition

Field name	Description
SITECODE	Site code
BONE_NO	Bone number
STA	State of bone
COMMENTS	Comments

See PART B of this document for information about bone state codes. The 'Comments' field contains further coded/ abbreviated information about the bone state, e.g.:

SITECODE	BONE NO	STA	COMMENTS
HAY86	73	GN	S DG 3

The comment 'S DG 3' in the above example indicates that the shaft was severely gnawed by a dog. It should be possible to work out most of the entries in the 'Comments' field for rows with the bone state codes 'GN', 'BT' and 'BR' by referring to Section 8.2 of the INFORMIX database documentation guide (INFORMIX_db_DOCUMENTATION.pdf), in particular:

8.2.5 Gnawing codes
8.2.6 Butchery codes
8.2.7 Burning codes

Entries in the 'Comments' field for rows with the bone state code 'PT' contain abbreviated pathology remarks, some of which reference bone part codes (see PART B below for bone part codes and their expansions). The code 'P' = 'present'.

4) ENV2_ABONE_TEETH.tab

Description: tooth wear data

Field name	Description
SITECODE	Site code
BONE_NO	Bone number
T	Tooth
GRNT	Tooth wear stage as per Grant (1975, 1982)
PAYNE	Tooth wear stage as per Payne (1973)

See PART B below for documentation about tooth codes and tooth wear codes.

5) ENV2_ABONE_ZONES.tab

Description: Animal bone zones as per Rackham 1986 (see below)

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[2] See Section 8.1 of the INFORMIX database documentation guide (INFORMIX_db_DOCUMENTATION.pdf)

Field name	Description
SITECODE	Site code
BONE_NO	Bone number
ZONE	Zone (after Rackham 1986)

Reference:

Rackham, D.J. (1986). Assessing the relative frequency of species by the application of a stochastic model to a zooarchaeological database. In L.H. van Wijngaarden-Bakker (ed.) *Database management and zooarchaeology.* Journal of the European Study Group of Physical, Chemical, Biological and Mathematical techniques applied to archaeology. Research Volume 40.

PART B) Codes and expansions

1) Species codes that appear in ENV2_ABONE.tab

SPECIES	**COMMON NAME**	**LATIN NAME**
BADG	BADGER	MELES MELES
BOS	CATTLE	BOS TAURUS (DOMESTIC)
CAN	DOG	CANIS FAMILIARIS
CER	RED DEER	CERVUS ELAPHUS
CHIK	CHICKEN	GALLUS GALLUS (DOMESTIC)
CHKZ	CHICKEN SIZE	
CLS	ROE DEER	CAPREOLUS CAPREOLUS
CRA	GOAT	CAPRA HIRCUS
CSZ	CATTLE SIZE	
CYP	CARP (FAMILY)	CYPRINIDAE
DAB	DAB	LIMANDA LIMANDA
DUCK	DUCK SPECIES	
EEL	EEL	ANGUILLA ANGUILLA
EQU	HORSE	EQUUS CABALLUS
FEL	CAT	FELIS CATUS
FOX	FOX	VULPES VULPES
FRTO	FROG OR TOAD	RANA SP./BUFO SP.
GOOS	GOOSE	ANSER ANSER (DOMESTIC)
GSZE	GOOSE SIZE	
HARE	HARE, BROWN	LEPUS EUROPAEUS
HERO	GREY HERON	ARDEA CINEREA
HERR	HERRING	CLUPEA HARENGUS
HESP	HERRING/SPRAT	C HARENGUS/S SPRATTUS
MALL	MALLARD	ANAS PLATYRHYNCHOS
MOUS	MOUSE SPECIES	MOUSE SPECIES
MOVO	MOUSE/VOLE	
ORC	RABBIT	ORYCTOLAGUS CUNICULUS
OTTR	OTTER	LUTRA LUTRA
OVCA	SHEEP/GOAT	OVIS ARIES/CAPRA HIRCUS
OVI	SHEEP	OVIS ARIES
PLFL	PLAICE/FLOUNDER	PLAICE/FLOUNDER

RATS	RAT SPECIES	RATTUS SPECIES
SHA	SHAD	ALOSA SP
SMA	SMALL MAMMAL	SMALL MAMMAL SP.
SMEL	SMELT	OSMERUS EPERLAUNUS
SPRA	SPRAT	SPRATTUS SPRATTUS
SSZ	SHEEP SIZE	
SUS	PIG	SUS SCROFA/SP. (DOMESTIC)
TUSP	THRUSH SPECIES	TURDUS SP.
UNI	UNIDENTIFIED MAMMAL	
UNIB	UNIDENTIFIED BIRD	
UNIF	UNIDENTIFIED FISH	
WHIT	WHITING	MERLANGIUS MERLANGUS
WOOD	WOODCOCK	SCOLOPAX RUSTICOLA

2) Bone codes that appear in ENV2_ABONE.tab

BONE	**EXP**
ANT	ANTLER
AST	ASTRAGALUS
ATL	ATLAS
AXI	AXIS
CAL	CALCANEUM
CAR	CARPAL
CC	COSTAL CARTILAGE
CDV	CAUDAL VERTEBRA
CEV	CERVICAL VERTEBRA
CKT	CHEEK TOOTH
CLV	CLAVICULA
COR	CORACOID
CP3	3RD CARPAL=MAGNUM
CPI	INTERM.CARPAL=LUNATE
CPR	RADIAL CARPAL=SCAPHOID
CTA	CARPAL/TARSAL
FEM	FEMUR
FIB	FIBULA
FUR	FURCULUM
HCO	HORN CORE
HUM	HUMERUS
HYD	HYOID
INN	INNOMINATE
LBF	LONG BONE FRAGMENT
LMV	LUMBAR VERTEBRA
MAN	MANDIBLE
MAX	MAXILLA
MC2	METACARPAL 2
MC3	METACARPAL 3
MC4	METACARPAL 4
MC5	METACARPAL 5
MND	MANDIBULAR DECIDUOUS TOOTH

MNT	MANDIBULAR TOOTH
MT2	METATARSAL 2
MT3	METATARSAL 3
MT4	METATARSAL 4
MT5	METATARSAL 5
MTC	METACARPAL
MTP	METAPODIAL
MTT	METATARSAL
MXT	MAXILLARY TOOTH
NAS	NASAL
OCC	OCCIPITAL
PAT	PATELLA
PH1	1ST PHALANX
PH2	2ND PHALANX
PH3	3RD PHALANX
PHA	PHALANX
PMX	PREMAXILLA
RAD	RADIUS
RAY	FIN RAY
RIB	RIB
RUL	RADIUS + ULNA
SAC	SACRUM
SCP	SCAPULA
SES	SESAMOID
SKL	SKULL
STE	STERNUM
TAR	TARSAL
TIB	TIBIA
TRC	=CQ=CENT.TARS=NAVICULO-CUBOID
TRV	THORACIC VERTEBRA
TTH	TOOTH
ULN	ULNA
UNI	UNIDENTIFIED
VAP	VERTEBRA, ABDOMINAL, POSTERIOR
VER	VERTEBRA
ZYG	ZYGOMATIC

3) Bone part codes that appear in ENV2_ABONE.tab:

PART	**EXP**
ANT	ANTERIOR
D+E	DISTAL SHAFT + DETACHED EPIPHYSIS
DE	DISTAL EPIPHYSIS
DIS	DISTAL
E	EPIPHYSIS
F	FRAGMENT
LAT	LATERAL
P+E	PROXIMAL SHAFT + DETACHED EPIPHYSIS

PE	PROXIMAL EPIPHYSIS
POS	POSTERIOR
PRO	PROXIMAL
S	SHAFT
W	WHOLE BONE

The following codes are documented in section 8.2 of the INFORMIX database documentation guide (INFORMIX_db_DOCUMENTATION.pdf) and will not be repeated here:

Side codes
Age codes
Sex codes
Fusion codes[3]
Bone state codes
Tooth codes
Tooth wear codes

[3] Note: the fusion code 'VC' = 'C' in the INFORMIX documentation guide, and the fusion code 'VO' = 'O'.

PART C) Table relationships

TABLE	PARENT	LINK ON	DESCRIPTION
ENV2_ABONE	-		Post-assessment animal bone
ENV2_ABONE_MEAS	ENV2_ABONE	SITECODE,BONE_NO	Post-assessment animal bone measurements
ENV2_ABONE_STATE	ENV2_ABONE	SITECODE,BONE_NO	Post-assessment animal bone conditions
ENV2_ABONE_TEETH	ENV2_ABONE	SITECODE,BONE_NO	Post-assessment animal teeth
ENV2_ABONE_ZONES	ENV2_ABONE	SITECODE,BONE_NO	Post-assessment animal bone