

TWS

DP4

P4

M1

M2

M3

a



b



c



d



e



N.B. The P4 is quite a complex tooth and, at stages F and G it can take one of several forms, shown below

f



g



h



i



j



k



l



Fallow Deer (*Dama dama*) Dental Ageing System.

Frazer Bowen, Ruth Carden and Naomi Sykes

Materials: 109 fallow deer of known age from Phoenix Park (Dublin) and the Natural History Museum (Paris)

Dental Eruption Sequence (compared with Chapman and Brown and Chapman 'coming into wear')

C = Crypt, V = Visible in Crypt, H = Half erupted

Bowen <i>et al.</i>	Brown & Chapman	Chapman
Dp4 – H erupted at birth, lost at c. 20 months		
P4 – erupts at c. 20 months	22 months	17-21 months
M1 – V (Visible) in Crypt (C) at birth, wear at 6 months	5 months	3-5 months
M2 – Crypt at 3 months, V at 9 months, wear at 15 months	18 months	9-13 months
M3 – Crypt at 12-15 mths, V at 18 mths, H and in wear at 20 mths	26 months	13-21 months

*Conversion of Tooth Wear Stage (TWS) into Mandible Wear Stage (MWS) with estimated ages (Bowen *et al.*)*

Mandible Wear Stage	Descriptor (Tooth Wear Stage)	Estimated Age	N
A	Dp4 H; M1 V	Birth - 7 days	5
B	Dp4 a-b; M1 V	Up to 2 months	2
C	Dp4 c-d; M1 V-H	4-5 months	2
D	Dp4 d-e; M1 a-b; M2 C-V	5-12 months	2
E	Dp4 e-g; M1 c-d; M2 a-c; M3 C-H	13-20 months	26
F	P4 a-d; M1 c-d; M2 c-d; M3 a-b	20-33 months	16
G	P4 d-e; M1 c-e; M2 d-e; M3 c-d	33-54 months	9
H	P4 e-g; M1 f-h; M2 f-g; M3 e	44-147 months	19
I	P4 g; M1 g; M2 g; M3 f	61-183 months	15
J	P4 g-l; M1 g-j; M2 g-l; M3 g+	118-189 months	13

Crown Heights (mm) for different teeth at different TWS (data for P4 to follow)

TWS	Dp4	M1	M2	M3
C		14.0-12.37		
D	8.76-7.39	13.8-11.42	16.9-10.8	17.43-12.83
E	8.99-7.64	12.77-11.14	16.0-12.9	16.13-12.93
F	8.35-6.29	12.09-10.6	15.4-12.6	15.65-12.43
G		11.86-8.98	13.58-10.39	14.58-9.78
H		10.7-8.38	11.86-8.6	12.09-10.68
I		9.65-7.53	8.23	12.98-10.65
J		8.89-6.59		11.81-9.9
K		5.19		

N.B. The M1 data are the most reliable.