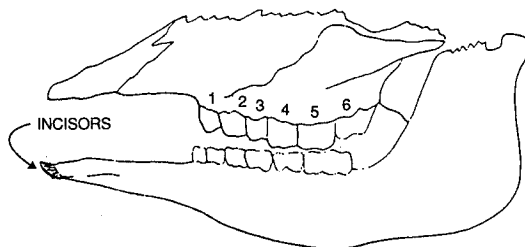
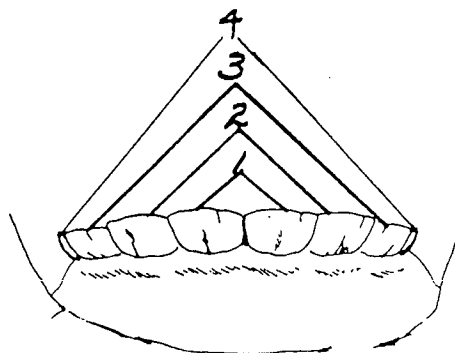


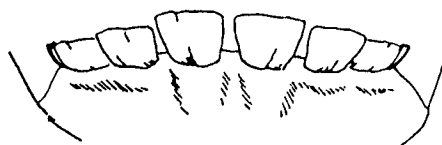
Figure 2. **Cattle Dental Formula.** (Adapted from Bovine Practitioner, No. 9-74, and "Incisor Tooth Eruption, Development and Attrition," Texas A&M University.)



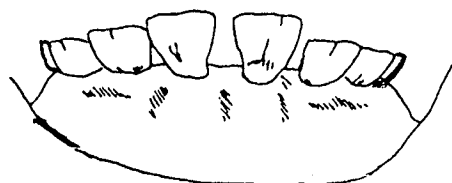
Upper and lower arcades showing premolars and molars.  
 1—1st premolar; 2—2d premolar; 3—3d premolar; 4—1st molar;  
 5—2d molar; and 6—3d molar.



18 months



19 months

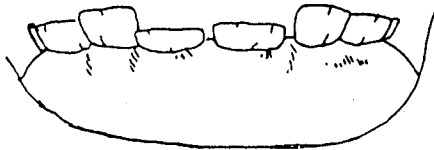


20 months

Figure 2. Cattle Dental Formula (continued)



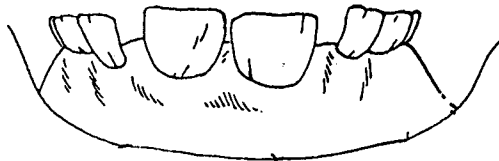
20 1/2 months



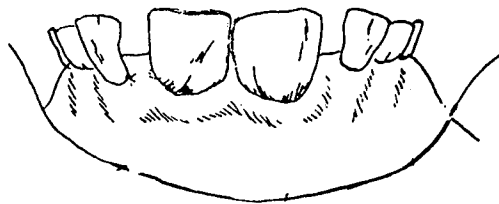
21 months



22 months

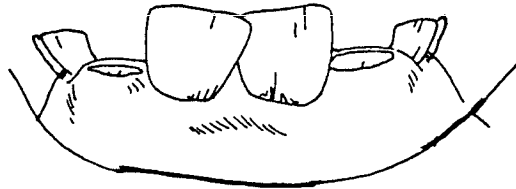


23 1/2 months

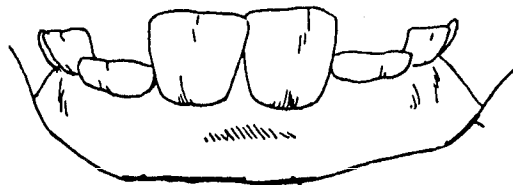


25 months

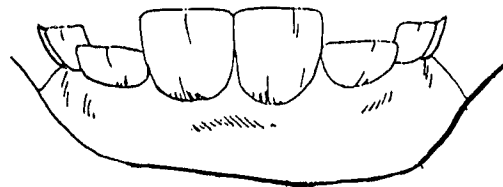
Figure 2. Cattle Dental Formula (continued)



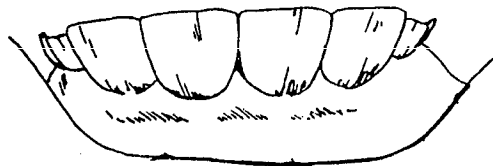
26 1/2 months



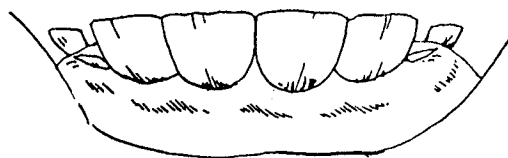
27 months



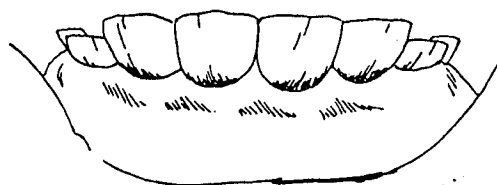
27 1/2 months



29 1/2 months

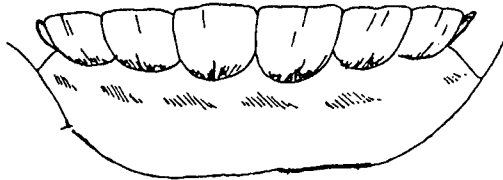


30 months

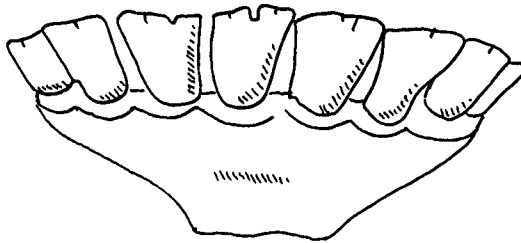


32 months

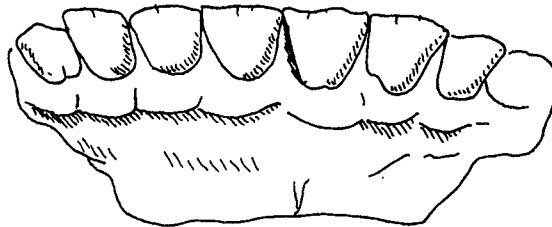
Figure 2. Cattle Dental Formula (continued)



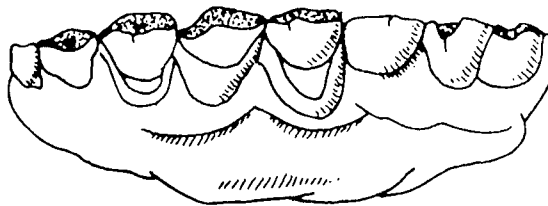
34 months



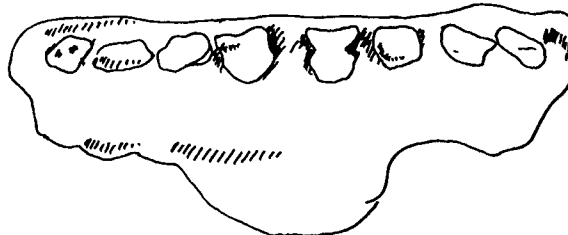
5 years



7 years



9 years



11 years

**Table 2—State codes, arranged numerically**

11	Maine	55	North Carolina
12	New Hampshire	56	South Carolina
13	Vermont	57	Georgia
14	Massachusetts	58	Florida
15	Rhode Island	61	Kentucky
16	Connecticut	63	Tennessee
21	New York	64	Alabama
22	New Jersey	65	Mississippi
23	Pennsylvania	71	Arkansas
31	Ohio	72	Louisiana
32	Indiana	73	Oklahoma
33	Illinois	74	Texas
34	Michigan	81	Montana
35	Wisconsin	82	Idaho
41	Minnesota	83	Wyoming
42	Iowa	84	Colorado
43	Missouri	85	New Mexico
45	North Dakota	86	Arizona
46	South Dakota	87	Utah
47	Nebraska	88	Nevada
48	Kansas	91	Washington
50	Delaware	92	Oregon
51	Maryland	93	California
52	Virginia	94	Puerto Rico
54	West Virginia	95	Hawaii
		96	Alaska

Source: Animal Health Information Center, Kerr Foundation, Box 588, Poteau, OK 74935.

**Table 3—State codes, arranged alphabetically**

Alabama	64	Montana	81
Alaska	96	Nebraska	47
Arizona	86	Nevada	88
Arkansas	71	New Hampshire	12
California	93	New Jersey	22
Colorado	84	New Mexico	85
Connecticut	16	New York	21
Delaware	50	North Carolina	55
Florida	58	North Dakota	45
Georgia	57	Ohio	31
Hawaii	95	Oklahoma	73
Idaho	82	Oregon	92
Illinois	33	Pennsylvania	23
Indiana	32	Rhode Island	15
Iowa	42	South Carolina	56
Kansas	48	South Dakota	46
Kentucky	61	Tennessee	63
Louisiana	72	Texas	74
Maine	11	Utah	87
Maryland	51	Vermont	13
Massachusetts	14	Virginia	52
Michigan	34	Washington	91
Minnesota	41	West Virginia	54
Mississippi	65	Wisconsin	35
Missouri	43	Wyoming	83
		Puerto Rico	94

Source: Animal Health Information Center, Kerr Foundation, Box 588, Poteau, OK 74935.

**Table 1—Cattle breeds and their abbreviation codes<sup>1</sup>**

<u>Code</u>	<u>Breed</u>	<u>Code</u>	<u>Breed</u>
AN	Aberdeen Angus	HH	Hereford (horned)
AB	Abondance	HP	Hereford (polled)
AF	Afronkander	SH	Highland (Scotch Highland)
AY	Ayrshire	HO	Holstein
BA	Barzona	HY	Hybrid (Alberta Hybrid)
BE	Beefalo	JE	Jersey
BF	Beef Friesian	KB	Kobe (Wagyu)
BM	Beef Master	LM	Limousin
BB	Belgium Blue	LR	Lincoln Red
BG	Belted Galloway	LL	Luining
BW	Black Whiteface	MA	Maine-Anjou
BD	Blonde D'Aquitaine	MR	Marchigiana
BO	Braford	ME	Maremmana
BR	Brahman	MI	Meuse-Rhine-Ijssel
BH	Brahmental	MO	Montbeliard
BN	Brangus	MG	Murray Grey
BU	Braunvieh	NM	Normandie
SB	Brown Swiss (beef)	NR	Norwegian Red
BS	Brown Swiss (dairy)	PA	Parthenais
CN	Canadienne	PI	Piedmont
CP	Capine Red Pied	PR	Pie Rouge
CB	Charbray	PZ	Pinzgauer
CH	Charolais	RN	Ramagnola
CA	Chianina	RA	Ranger
XX	Crossbred	AR	Red Angus
DB	Danish Black & White	RB	Red Brangus
DJ	Danish Jersey	RD	Red Dane (Red Danish, Danish Red)
RW	Danish Red & White	WW	Red Holstein
DE	Devon	RP	Red Poll
DR	Dexter	RO	Rotbunte
FP	East Flemish Red Pied	AS	Salers
ER	Eringer	SG	Santa Gertrudis
FA	Flamand	MS	Shorthorn (milking)
FL	Fleckvieh	SS	Shorthorn (beef-Scotch)
FR	Fribourg	SP	Shorthorn (polled)
FB	Friesian (Belgium)	IS	Shorthorn (Illawara)
DF	Friesian (Dutch)	SM	Simmental
GA	Galloway (beef)	DS	South Devon
GD	Galloway (dairy)	DX	Sussex
GS	Gascone	TA	Tarrantaise
GV	Gelbvieh	TG	Tasmanian Grey
GR	Groninger	TL	Texas Longhorn
GU	Guernsey	WB	Welsh Black
HC	Hays Converter	WF	West Flemish Red

<sup>1</sup>If an animal is crossbred, record the predominant breed with an "X" beside it, e.g., ANX. Use only XX when no single breed is predominant.