

Manteodon, *Ectacodon*, *Metalophodon*; **HYRACOTHERIUM**, *Eohippus*, *Systemodon*, **HEPTODON**, *Lambdaotherium*; **Artiodactyl Ungulates**, *Pantolestes*, *Homacodon*, *Eoehyus*, ? *Achænodon*. **Insectivores**: *Diacodon*. **Creodonts**: *Anacodon*, ? *Dissacus*, *Pachyæna*, **SINOPIA**, *Didelphodus*, **PALÆONICTIS**, *Oxyæna*, *Miacis*, *Didymictis*. **Quadrumana**: *Anaptomorphus*, **HYOPSODUS**, *Pelycodus*, *Cynodontomys*, *Microsyops*.

WIND RIVER, GREEN RIVER GROUPS.—**Rodents**: *Paramys*. **Tillodonts**: *Esthonyx*, *Calamodon*. **Ungulates**: *Phenacodus*, *Trispondylus*; *Coryphodon*, *Bathyopsis*; *Hyracotherium*, *Pachynolophus*, *Lambdaotherium*, *Palæosyops*; **Artiodactyl Ungulates**, *Pantolestes*. **Insectivores**: *Ictops*. **Chiropters**: *Vesperugo*. **Creodonts**: *Sinopa*, *Patriofelis*, *Miacis*, *Didymictis*. **Quadrumana**: *Microsyops*, *Pelycodus*.

BRIDGER GROUP.—**Rodents**: *Paramys*, *Mysops*. **Tillodonts**: *Anchippodus*, *Tillotherium*. **Ungulates**: *Uintatherium*, *Dinoceras*, *Tinoceras*; *Orohippus*, *Lambdaotherium*, *Palæosyops*, *Limnosyops*, *Telmatherium*, *Hyrachyus*, *Helohyus*, *Colonoceras*, *Triplopus*, *Helaletes*, **ISECTOLOPHUS**, *Amynodon*; **Artiodactyl Ungulates**, *Achænodon*, **HOMACODON**, *Nanomeryx*, *Helohyus*, *Ithygrammodon*. **Insectivores**: *Ictops*, *Palæacodon*, ? *Passalacodon*. **Rodent**: ? *Apatemys*. **Chiropters**: *Nyctilestes*, ? *Vesperugo*. **Creodonts**: *Miacis*, *Didymictis*, *Mesonyx*, **SINOPIA**, **PROVIVERRA**, ? *Viverravus*, *Patriofelis*. **Quadrumana**: **HYOPSODUS**, *Notharctus*, *Microsyops*, *Tomitherium*, ? *Lemuravus*.

UINTA GROUP.—**Rodents**: *Paramys*. **Ungulates**: *Epihippus*, *Triplopus*, *Amynodon*, *Isectolophus*, *Diplacodon*; **Artiodactyl Ungulates**, *Protoreodon*, *Hyomeryx*, *Leptotragulus*, *Oromeryx*. **Creodonts**: *Mesonyx*, ? *Miacis*. **Quadrumana**: *Hyopsodus*.

MIOCENE.

1. LOWER MIOCENE.

A. WHITE RIVER GROUP.—(In part, Oligocene of W. B. Scott.)

(1) *Titanotherium* beds.—**Ungulates**: *Titanotherium*, *Brontotherium*, *Brontops*; *Teleodus*, **CÆNOPUS**, *Mesohippus*, *Colodon*; **SCHIZOTHERIUM** (Canada); **Artiodactyl Ungulates**, ? *Oreodon*, **ELOTHERIUM**, **ANCODUS** (**HYOPOTAMUS**), **ANTHRACOTHERIUM**, *Poëbrotherium*, ? *Leptomeryx*, ? *Hypertragulus*. **Creodonts**: *Hemipsalodon* (near *Pterodon*, Canada).

(2) *Oreodon* beds.—**Marsupials**: **DIDELPHYS!** **Rodents**: *Ischyromys*, *Gymnoptychus*, *Heliscomys*, **STENEOFIBER**, **SCIURUS**, **EUMYS**, *Palæolagus*. **Ungulates**: **MESOHIPPUS**, **CÆNOPUS**, *Hyracodon*, *Metamynodon*, *Colodon*, **PROTAPIRUS**; **Artiodactyl Ungulates**, *Oreodon*, *Agriochærus*, **ANCODUS**; **ELOTHERIUM**, **ANTHRACOTHERIUM**, **PERCHÆRUS**, *Leptochærus*, *Poëbrotherium*; *Leptomeryx*, *Hypertragulus*, *Hypisodus*, *Stibarus*.—**Insectivores**: *Ictops*, *Leptictis*, *Mesodectes*, *Geolabis*. **Chiropters**: ? *Domnina*. **Creodonts**: **HYÆNODON**. **Carnivores**: *Daphænus*, **CYNODON**, **DINICTIS**, *Hoplophoneus*, *Bunælorus*. **Quadrumana**: ? *Laopithecus*.

(3) *Protoceras* beds.—(Rodents not studied.) **Ungulates**: **CÆNOPUS**, **DICERATHERIUM**, *Hyracodon*; ? *Miohippus*; **PROTAPIRUS**; **Artiodactyl Ungulates**, *Oreodon*, ? *Epo-reodon*, *Agriochærus*, *Coloreodon*; *Leptauchenia*, **ANCODUS**; **ANTHRACOTHERIUM**, *Perchærus*; *Leptomeryx*; *Protoceras*. **Creodonts**: *Hyænodon*. **Carnivores**: **CYNODON**, **DINICTIS**, *Hoplophoneus*, ? *Pogonodon*.

B. JOHN DAY GROUP.—**Rodents**: *Allomys*, **SCIURUS**, **STENEOFIBER**, *Sitomys*, *Pacculus*, *Pleurolichus*, *Eutoptychus*, *Palæolagus*, *Lepus!* **Ungulates**: **MACROTHERIUM**; **CÆNOPUS**, **DICERATHERIUM**; *Miohippus*; ? **PROTAPIRUS**; **Artiodactyl Ungulates**, *Eporeodon*, *Mesoreodon**, *Merycochærus*, *Agriochærus*, *Coloreodon* (*Agriomeryx*), *Hypertragulus*; *Poëbrotherium*, *Gomphotherium*; *Elotherium*, *Chænohyus*, *Bothriolabis*, *Thinohyus*. **Carnivores**: *Daphænus*, **CYNODON**, *Temnocyon*, *Cynodesmus**, *Enhydrocyon*, *Hyænocyon*, *Oligobunis*, *Archælorus*, *Dinictis*, *Hoplophoneus*, *Nimravus*, *Pogonodon*, *Parictis*.

(The genera in small caps are found in the Lower Miocene of Europe. The genera, the names of which have an asterisk added, are known only from the John Day of Montana.)