

Table 2.2. Genera from Appendix 2 arranged according to occurrences in Beringia. In some instances where a taxon is listed in only one region for a particular period (e.g., *Typha* in the Miocene and Pliocene of only west Beringia) it occurs in both regions in older periods (Oligocene) as designated by a footnote (a) in the appendix.

West and east Beringia

Cretaceous

Ferns and allied groups

*Anemia*

*Arctopteris*

*Asplenium*

*Birisia*

*Cladophlebis*

*Coniopteris*

*Equisetites*

*Equisetum*

*Gleichenia*

*Gleichenites*

*Goniopteris*

*Hausmannia*

*Isöetites*

*Ochtopteris*

*Onoclea*

*Onychiopsis*

*Osmunda*

*Ruffordia*

*Salvinia*

*Selaginella*

*Sphenopteris*

Gymnosperms

*Abies*

*Anomozamites*

*Araucarites*

*Arthrotaxopsis*

*Baiera*

*Butefia*

*Cedrus*

*Cephalotaxopsis*

*Cryptomeria*

*Cryptomerites*

*Cunninghamia*

*Cupressinocladus*

*Czekanowski*

*Desmiophyllum*

*Elatocladus*

*Florinia*

*Ginkgo*

*Ginkgoites*

*Glyptostrobus*

*Heilungia*

*Leptostrobus*

*Libocedrus*

*Mesocyparis*

*Metasequoia*

*Nilsonia*

*Nilssoniocladus*

*Plagiophyllum*

*Parataxodium*

*Phoenicopsis*

*Pinus*

*Pityophyllum*

*Pityospermum*

*Pitystrobus*

*Podozamites*

*Protophyllocladus*

*Pseudocycas*

*Pseudolarix*

*Pterophyllum*

*Sagenopteris*

*Sciadopitys*

*Sequoia*

*Sphenobaiera*

*Stenorachis*

*Taniopteris*

*Taiwania*

*Taxites*

*Taxodium*

*Taxus*

*Thuites*

*Thuja*

*Williamsonia*

Angiosperms

*Acer*

*Anacardites*

*Araliaephyllum*

*Aristolochia*

*Aristolochites*

*Arthollia*

*Arundo*

*Celastrinites*

*Celastrrophyllum*

*Celtis*

*Cercidiphyllum*

*Cinnamomoides*

*Cissites*

*Cissus*

*Corylites*

*Corylus*

*Crataegites*

*Credneria*

*Dalbergites*

*Dalembia*

*Daphnophyllum*

*Diospyros*

*Ettinghausenia*

*Grebenkia*

*Grewiopsis*

*Haemanthophyllum*

*Hedera*

*Ilex*

*Juglans*

*Kenella*

*Laurophyllum*

*Lindera*

*Liriophyllum*

*Macclintockia*

*Magnolia*

*Magnoliaephyllum*

*Menispermites*

*Nelumbites*

*Nordenskioldia*

*Nymphaeites*

*Nyssa*

*Nyssidium*

*Paliurus*

*Phragmites*

*Pistia*

*Platanus*

*Populites*

*Protophyllum*

*Pseudoprotophyllum*

*Quercus*

*Quereuxia*

*Rarytkinia*

*Rhamnites*

*Rubus*

*Sapotacites*

*Scheffleraephyllum*

*Smilax*

*Sorbus*

*Sparganium*

*Sterculia*

*Ternstroemites*

*Tiliaephyllum*

*Trochodendroides*

*Ulmus*

*Viburniphyllum*

*Viburnum*

*Vitis*

*Zizphoides*

*Zizphus*

### Paleocene

#### Ferns and allied groups

*Asplenium*

*Cladophlebis*

*Dennstaedtia*

*Equisetum*

*Onoclea*

*Osmunda*

*Salvinia*

*Woodwardia*

Gymnosperms

*Chamaecyparis*

*Cupressinocladus*

*Ginkgo*

*Glyptostrobus*

*Metasequoia*

*Taxites*

*Taxodium*

Angiosperms

*Acer*

*Aesculus*

*Alnus*

*Aralia*

*Artocarpus*

*Betula*

*Bumelia*

*Callistemophyllum*

*Carex*

*Carpinus*



*Cornus*

*Corylites*

*Corylus*

*Cyperacites*

*Daphnogene*

*Davidia*

*Dryandra*

*Fagopsis*

*Ficus*

*Hydrangea*

*Juglans*

*Laurophyllum*

*Laurus*

*Leucothoë*

*Limnobiophyllum*

*Lindera*

*Litsea*

*Macclintockia*

*Magnolia*

*Mimosites*

*Myrica*

*Nelumbo*

*Nymphaea*

*Nyssa*

*Nyssidium*

*Ocotea*

*Peltandra*

*Persea*

*Phoebe*

*Phragmites*

*Platanus*

*Poacites*

*Populus*

*Protophyllum*

*Pterocarya*

*Sapindus*

*Sideroxylon*

*Sorbus*

*Tiliaephyllum*

*Trochodendroides*

*Ulmus*

*Viburnum*

## Eocene

### Ferns and allied groups

*Acrostichum*

*Anemia*

*Azolla*

*Blechnum*

*Dennstaedtia*

*Dryopteris*

*Equisetum*

*Lastrea*

*Lygodium*

*Onoclea*

*Osmunda*

*Polypodites*

*Salvinia*

*Woodwardia*

Gymnosperms

*Abies*

*Atrotaxis*

*Cunninghamia*

*Ginkgo*

*Glyptostrobus*

*Larix*

*Metasequoia*

*Picea*

*Pinus*

*Podocarpus*

*Pseudolarix*

*Sciadopitys*

*Sequoia*

*Taxodium*

*Thuites*

*Torreya*

Angiosperms

*Acer*

*Aesculus*

*Ailanthus*

*Alangium*

*Alnus*

*Amphelopsis*

*Amygdalus*

*Anacardites*

*Andromeda*

*Apocynophyllum*

*Arundites*

*Asclepiadites*

*Astronium*

*Banksia*

*Betula*

*Carpinus*

*Cassia*

*Castanea*

*Castanopsis*

*Ceanothus*

*Cedrela*

*Celtis*

*Cercidiphyllum*

*Cinnamophyllum*

*Cissites*

*Cissus*

*Coccoloba*

*Cuculus*

*Comptonia*

*Crodia*

*Cornophyllum*

*Corylopsis*

*Corylus*

*Cotinus*

*Crataegus*

*Daphne*

*Daphnogene*

*Diospyros*

*Dryophyllum*

*Echitonium*

*Eucalyptus*

*Eugenia*

*Euonymus*

*Euphorbiophyllum*

*Fagopsis*

*Fagus*

*Ficus*

*Firmiana*

*Fothergilla*

*Fraxinus*

*Grewopsis*

*Hakea*

*Hamamelites*

*Hamamelis*

*Hibiscus*

*Hydrangea*

*Idesia*

*Juglans*

*Koelreuteria*

*Larus*

*Leucothoë*

*Liquidambar*

*Lithocarpus*

*Litsea*

*Lomatia*

*Macclintockia*

*Magnolia*

*Majanthemophyllum*

*Mallotus*

*Musophyllum*

*Myrica*

*Myrsine*

*Nelumbo*

*Neolitsea*

*Nordenskioldia*

*Nyssidium*

*Peltandra*

*Persea*

*Phragmites*

*Phytocrene*

*Platycarya*

*Populus*

*Rhamnus*

*Rhododendron*

*Rhus*

*Rubus*

*Sabal*

*Sassafras*

*Sterculia*

*Ternstroemites*

*Tetracentron*

*Tetracera*

*Tilia*

*Trochodendroides*

*Typha*

*Ungnandia*

*Vaccinium*

*Viburnum*

*Zelkova*

*Zingiberites*

*Zizyphus*

## Oligocene

### Ferns and allied groups

*Osmunda*



*Salvinia*

Gymnosperms

*Cedrus*

*Glyptostrobus*

*Metasequoia*

*Pinus*

*Sequoia*

*Taxodium*

*Taxus*

Angiosperms

*Acer*

*Ailanthus*

*Alnus*

*Amphelopsis*

*Asclepias*

*Astronium*

*Betula*

*Carex*

*Carpinus*

*Carya*

*Castanea*

*Cedrela*

*Celastrus*

*Cercidiphyllum*

*Cocculus*

*Comptonia*

*Cornus*

*Corylus*

*Crataegus*

*Cyperites*

*Diospyros*

*Eucalyptus*

*Eucommia*

*Euonymus*

*Fagus*

*Fraxinus*

*Juglans*

*Laurus*

*Lindera*

*Liquidambar*

*Magnolia*

*Mimosites*

*Myrica*

*Nelumbo*

*Nyssa*

*Phragmites*

*Platanus*

*Pterocarya*

*Quercus*

*Rhus*

*Salix*

*Sorbus*

*Spiraea*

*Typha*

*Ulmus*

*Vitis*

*Zelkova*

### Miocene

#### Ferns and allied groups

*Dryopteris*

*Equisetum*

*Onoclea*

*Osmunda*

*Salvinia*

#### Gymnosperms

*Gyptostrobus*

*Keteleeria*

*Larix*

*Metasequoia*

*Picea*

*Pinus*

*Pseudolarix*

*Taxodium*

Angiosperms

*Acer*

*Alangium*

*Alnus*

*Apocynophyllum*

*Betula*

*Carex*

*Carpinus*

*Carya*

*Castanea*

*Celastrus*

*Celtis*

*Cercidiphyllum*

*Cercis*

*Cissus*

*Cladrastis*

*Comptonia*

*Cornus*

*Corylus*

*Crataegus*

*Desmodium*

*Eucommia*

*Fagus*

*Fraxinus*

*Hydrangea*

*Idesia*

*Ilex*

*Juglans*

*Liquidambar*

*Lindera*

*Litsea*

*Magnolia*

*Meliosma*

*Myrica*

*Nelumbo*

*Nuphar*

*Nyssa*

*Ostrya*

*Paliurus*

*Parrotia*

*Phragmites*

*Populus*

*Potamogeton*

*Prunus*

*Pterocarya*

*Quercus*

*Rhamnus*

*Rhus*

*Rosa*

*Salix*

*Scirpus*

*Sorbus*

*Sparganium*

*Spiraea*

*Tilia*

*Trapa*

*Trochodendron*

*Typha*

*Ulmus*

*Zelkova*

## Pliocene

### Ferns and allied groups

*Lycopodium*

*Pteridium*

*Selaginella*

### Gymnosperms

*Abies*

*Larix*

*Picea*

*Pinus*

### Angiosperms

*Acer*

*Alnus*

*Andromeda*

*Aralia*

*Artemisia*

*Betula*

*Carpinus*

*Carya*

Chenopodiaceae

*Comptonia*

*Corylus*

Ericaceae

*Fagus*

*Ilex*

*Juglans*

*Liquidambar*

*Magnolia*

*Morus*

*Myrica*

*Nyssa*

*Ostrya*

*Parrotia*

Poaceae

*Pterocarya*

*Quercus*

*Rubus*

*Rumex*

*Salix*

*Sambucus*

*Staphylea*

*Tilia*

*Ulmus*



*Urtica*

*Vitis*

West or East Beringia

West Beringia

East Beringia

Cretaceous

Ferns and allied groups

*Acrostichopteris*

*Dennstaedtia*

*Adiantopteris*

*Elatocladus*

*Azimia*

*Kolymedia*

*Cladophlebidium*

*Lycopodium*

*Coniopteridium*

*Tchaunia*

*Danaeites*

*Osmundopsis*

*Penzhinopteris*

*Schizaea*

*Scleropteris*

Gymnosperms

*Agathis*

*Abietites*

*Alatispermum*

*Elatides*

*Aldania*

*Fokieniopsis*

*Brachyphyllum*

*Torreya*

*Cephalotaxopsis*

*Cycadites*

*Cyparassisium*

*Drepanolepsis*

*Encephalartopsis*

*Ixostrobus*

*Karkeniania*

*Microconium*

*Neozamites*

*Nilssoniopteris*

*Otozamites*

*Pityolepis*

*Pityocladus*

*Podocarpus*

*Sachalinella*

*Schizolepis*

*Tollia*

*Torellia*

Angiosperms

*Amaamia*

*Anadyricarpa*

*Araliaecarpum*

*Archeampelos*

*Castalites*

*Araliopsis*

*Arctoterum*

*Barykovia*

*Caricopsis*

*Cocculophyllum*

*Disanthophyllum*

*Dyrana*

*Hollickia*

*Levlevia*<sup>1</sup>

*Kakanautia*

*Limnobiophyllum*

*Mirella*

*Myrtophyllum*

*Nelumbo*

*Nuphar*

*Palaeotrappa*

*Peculnea*

*Penzhinia*

*Platamelis*

*Potamogeton*

*Renea*

*Samaropsis*

*Sapindopsis*

*Stenorachis*

*Sugio*

*Terechovia*

*Trochodendrocarpus*

Paleocene

Ferns and allied groups

*Amurocyparis*

Gymnosperms

*Fokieniopsis*

*Quasisequoia*

Angiosperms

*Anoectomeria*

*Apollonias*

*Cornophyllum*

*Craigia*

*Cryptomerites*

*Dewalquea*

*Oxycarpia*

*Palaeocarpinus*

*Porsia*

*Protoacerophyllum*

*Tetracentron*

*Trochodendrocarpus*

*Ushia*

*Zingiberopsis*

Eocene

Ferns and allied groups

*Cyclosorus*

*Hydropteris*

*Osmundastrum*

*Regnellidium*

Gymnosperms

*Araucaria*

*Cryptomeria*

*Doliosstobus*

Angiosperms

*Actinidia*

*Sabalites* (*Sabal* in both)

*Broussonetia*

*Byttneria*

*Camellia*

*Cornophyllum*

*Corylopsiphyllum*

*Cragia*

*Davidoidea*

*Delavaya*

*Dombeya*

*Eotrigonobalanus*

*Gouania*

*Kalopanax*

*Kleinhovia*

*Limnobiophyllum*

*Lindera*

*Litseaphyllum* (*Litsea* in both)

*Macginitiae*

*Melastomites*

*Nitophyllites*

*Nuphar*

*Nyssa*

*Ocotea*

*Oxycarpa*

*Palibinia*

*Phellodendron*

*Pittosporum*

*Plafkeria*

*Posidonia*

*Sorbaria*

*Spondylos*

*Tsukada*

*Ulmites (Ulmus in both)*

*Ushia*

*Viburnum*

*Zingiberopsis (Zingiberites in both)*

Oligocene

Ferns and allied groups-- none listed

Gymnosperms- - none listed

Angiosperms

*Aponogeton*

*Cotinus*

*Firmiana*

*Hemiptelea*

*Hovenia*

*Palibinia*

*Phellodendron*

*Pistacia*

*Physocarpus*

*Rhamnus*

*Strelitzia*

*Toxicodendron*

Miocene

Ferns and allied groups—none listed

Gymnosperms

*Ginkgo*

*Sequoia*

Angiosperms

*Alfaropsis*

*Platanus*

*Aponogeton*

*Cotinus*

*Davidia*

*Hovenia*

*Indigofera*

*Microtropis*

*Poriploca*

*Phellodendron*

*Spatholobus*

*Strelitzia*

Pliocene

Ferns and allied groups-- none listed



Gymnosperms-- none listed

Angiosperms

*Alnaster*

*Bunias*

*Pittosporum*

*Polycnenum*

*Fraxinus*

*Lemna*

*Myriophyllum*

*Polygonum*

*Saxafraga*

*Typha*

1. According to Retallick and Dilcher (1981, p. 48) “none of these fossils [including *Levlevia*] have any definitive angiospermous character.”