APPENDIX A

COMPENDIUM INDEX OF NORTH AMERICAN FOSSIL PLANTS First Field

1— ANGIOSPERMS

Leaves with several orders of venation, cross-veins and vein anastamoses at several orders.

Leaves Preserving Compound Attachment

100	Leaf pinnately compound or (bi-) trifoliate, toothed
101	Leaf pinnately compound or (bi-) trifoliate, toothless
102	Leaf palmately compound
	Leaves Preserved As Isolated Lamina
	Petiole Attached at Base of Lamina
	Tetrole Attached at Base of Lamma
103	Lamina pinnately veined, deeply emarginate, or bilobed or in multiples of 2
104	Lamina pinnately veined, 3 or more lobes
105	Lamina pinnately veined, linear
106	Lamina pinnately veined, unlobed, oblong, toothed
107	Lamina pinnately veined, unlobed, oblong, toothless
108	Lamina pinnately veined, unlobed, elliptic, symmetrical, dentate
109	Lamina pinnately veined, unlobed, elliptic, symmetrical, serrate
110	Lamina pinnately veined, unlobed, elliptic, symmetrical, crenate
111	Lamina pinnately veined, unlobed, elliptic, symmetrical, toothless
112	Lamina pinnately veined, unlobed, elliptic, asymmetrical
113	Lamina pinnately veined, unlobed, ovate, symmetrical, dentate
114	Lamina pinnately veined, unlobed, ovate, symmetrical, serrate
115	Lamina pinnately veined, unlobed, ovate, symmetrical, crenate
116	Lamina pinnately veined, unlobed, ovate, symmetrical, toothless, secondaries with
	uniform spacing and angle of origin
117	Lamina pinnately veined, unlobed, ovate, symmetrical, toothless, secondaries crowded
	toward the base
118	Lamina pinnately veined unlobed, ovate, symmetrical, toothless, one or more pairs of
	lower secondaries emerging at a lower angle than those above
119	Lamina pinnately veined, unlobed, ovate, symmetrical, toothless, with (an) intramarginal
	vein(s)
120	Lamina pinnately veined, unlobed, ovate, asymmetrical
121	Lamina pinnately veined, unlobed, obovate, symmetrical, toothed
122	Lamina pinnately veined, unlobed, obovate, symmetrical, toothless
123	Lamina pinnately veined, unlobed, obovate, asymmetrical
124	Lamina pinnately veined, w/nectinal vein, unlobed, elliptic or oblong, toothed

- Lamina pinnately veined, with pectinal vein, unlobed, elliptic or oblong, toothless
- Lamina pinnately veined, with pectinal vein, unlobed, ovate, toothed
- Lamina pinnately veined, with pectinal vein, unlobed, ovate, toothless
- Lamina pinnately veined, with pectinal vein, unlobed, obovate
- Lamina acrodromously veined, elliptic or oblong, toothless
- Lamina acrodromously veined, elliptic or oblong, toothless
- 131 Lamina acrodromously veined, ovate, toothed
- Lamina acrodromously veined, ovate, toothless
- 133 Lamina acrodromously veined, obovate
- Lamina actino- or palinactinodromously veined, unlobed, elliptic, or oblong, toothed
- Lamina actino- or palinactinodromously veined, unlobed, elliptic or oblong, toothless
- Lamina actino- or palinactinodromously veined, unlobed, ovate, toothed
- Lamina actino- or palinactinodromously veined, unlobed, ovate, toothless
- Lamina actino- or palinactinodromously veined, unlobed, obovate
- Lamina actino- or palinactinodromously veined, 2-lobed or lobes in multiples of 2
- Lamina actino- or palinactinodromously veined, 3-lobed
- Lamina actino- or palinactinodromously veined, 5 or more lobes
- Lamina definitely palinactinodromously veined, 3 lobed
- Lamina definitely palinactinodromously veined, 5 or more lobes
- 144 Lamina campylodromously veined
- Lamina flabellately veined, very weakly pinnately or palmately veined or multistranded midvein
- Lamina flat and unlobed, veins parallelodromous, pinnately attached to a costa
- Lamina flat and unlobed, veins parallelodromous from a zone at the blade base
- Lamina plicate or breaking into narrow-segments, venation parallelodromous, leaf shape and vein origin unknown
- Lamina plicate and lobed, fan-shaped, venation palmate
- Lamina plicate and lobed, feather-shaped, venation pinnate

Petiole Attached Inside Leaf Margin

- Lamina pinnately veined, with or without pectinal veins
- Lamina palmately veined, unlobed, orbicular
- Lamina palmately veined, unlobed, ovate, toothed
- Lamina palmately veined, unlobed, ovate, toothless
- Lamina palmately veined, lobed

Petiole Attachment Various or Indeterminate

- Lamina of special or unusual- shape (including needle, awl, and scale)
- Lamina insufficiently characterized, pinnate (or unknown), toothed
- Lamina insufficiently characterized, pinnate (or unknown), toothless (or unknown)
- Lamina insufficiently characterized, palmate, toothed
- Lamina insufficiently characterized, palmate, toothless (or unknown)

	Other Organs
170	Flowers occurring as single units
171	Flowers aggregated into catkins or aments
172	Flowers aggregated into heads or capitulas
180	Fruits, dry,indehiscent, seed-containing portion relatively small (generally <5mm) or, if
	winged, the winged portion exceeding the size of the seed (achenes, caroyapsis, utricles,
	cypselas, samaras, etc.)
181	Fruits, dry, indehiscent, large (>5mm) or, if winged, the winged portion smaller than the seed
	bearing portion (acorns, balaustas, calybiums, nuts)
182	Fruits, dry, dehiscent capsules, follicules, or siliques
183	Fruits, dry dehiscent legumes or loments
184	Fruits, fleshy (berries, drupes, pomes, etc.)
185	Fruits, aggregate or multiple
186	Fruits, other - or of indeterminate characters
190	Wood or stems
2—	GYMNOSPERMS
200	Pteridosperms (including Caytoniales)
210	Cycadophytes, leaves dissected, toothless, veins parallel except convergent at pinna apex and
	base, mainly forked
211	Cycadophytes, leaves dissected, toothless, veins parallel except convergent at pinnule apex
	and base, mainly unforked, pinnules <3cm long
212	Cycadophytes, leaves dissected, toothless veins parallel except convergent at pinnule apex
	and base, mainly unforked, pinnules >3cm long
213	Cycadophytes, leaves dissected, toothless, veins pinnate or radiating throughout length of
214	pinnule
214	Cycadophytes, leaves dissected, pinnules toothed
215	Cycadophytes, leaves undissected, veins parallel, unforked
216	Cycadophytes, leaves undissected, veins parallel, forked
217	Cycadophyte leaves, habit indeterminable
218	Cycadophyte seeds, cones, and "flowers" Cycadophyte stems and wood
219 220	Ginkgophytes, leaves fan-shaped, veins flabellate, includes the Neoggerathiales,
	Czekanowskiales
230	Conifers, scaley foliage, leaves appressed to stem for more than 1/2 of their length
231	Conifers, short needles: average <3cm
232	Conifers, long needles: average >3cm
233	Conifers, leafy blades 1<3cm, 1/w ratio >10:1 or 1>3cm l/w ratio 1.5 or less
234	Conifers, cones
235	Conifers, cone scales
236	Conifers, seeds
237	Coniferophytes, wood
238	Conifers, characters uncertain
240	Gnetophytes
11	

300	ALGAE
	TEOLE
350	FUNGI
400	BRYOPHYTES
	BRI OHITTES
5—	FERNS
500	Blades dissected, veins open, ultimate laminar division w/o midribs
501	Blades dissected, w/ midribs, veins unforked
502	Blades dissected, veins closed, ultimate laminar divisions w/ midribs, veins forked
503	Blades dissected, veins closed, ultimate laminar divisions w/o midribs
504	Blades dissected, veins closed, ultimate laminar divisions with midribs
505	Blades undissected
506	Venation obscure or uncertain
507	Specialized fertile pinnae, fertile part much exceeding sterile tissue in at least a part of the leaf
508	Fern stems and rhizomes
509	Fragments too small to determine
600	SPHENOPSIDS
7—	LYCOPSIDS
700	Lycopodium and Selaginella
710	Isoetales
000	CALLS AND LEGIONS
800	GALLS AND LESIONS
9	PLANTS OF INDETERMINATE RELATIONSHIPS
900	Stems with attached leaves or other structures
910	Rhizomes, roots and stems
920	Leaves
930	Seeds
940	Miscellaneous plant organs and parts
950	Indeterminate plant parts
990	NON PLANTS