
COAL BALL FLORAS OF ILLINOIS

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The "coal ball" floras of Europe, except the permian coal balls of France, were formed in the Lower Carboniferous¹, while those of the Illinois-Kentucky-Indiana basin do not go below coal seam No. 5 in Illinois and No. 9 in Kentucky, which can be correlated with seams in the Stephanien of Europe, which is the upper section of the Upper Carboniferous.

Nevertheless, most American genera and species of coal ball plants can be found in European coal balls. A comparison of the respective floras is given below. The following list has been compiled from published and unpublished observations by J. Hobart Hoskins, Doris Fredda Reed, Inez M. Clark, and the author of this paper.

¹ Max Hirmer, Ueber Vorkommen and Verbreitung der Dolomitknollen und deren Flora. Congrès pour l'avancement des études de stratigraphie carbonifère. Compt. rendu. Heerlen 1927, pp. 289-312.

COAL BALL FLORA OF ILLINOIS-
KENTUCKY-INDIANATHE SAME TYPES OBSERVED
IN EUROPE*Lycopodiales:*

Lepidodendron selaginoides	England
Lepidodendron Harcourtii	Belgium
Lepidodendron Hickii	England, Holland, Donetz Basin
Lepidocarpon Lomaxi	England
Lepidostrobus	England
Lepidodendron spores	England
Sigillaria stem	England
Stigmaria ficoides	Everywhere

Articulatales:

Arthropitys communis	Everywhere
Calamostachys oldhamia	England
Sphenophyllum plurifoliatum	Everywhere

Filicales:

Botryopteris forensis	France (Permian)
Botryopteris tridentata	England, Belgium, Holland, Westphalia
Botryopteris petioles	England, Belgium, Holland, Westphalia
Ankyriopteris petioles	England
Etapteris Lacattei	France (Permian)
Scolecopteris sporangia	France (Permian)
Sturiella sporangia	France (Permian)
Ptychocarpus	Not observed
Pteridotheca	England
Psaronius stem	Not observed
Medullosa roots	England
Myeloxylon	Everywhere
Lagenostoma Lomaxi	England
Trigonocarpus	England

Cordaitales:

Cordaites sp.	England
Cardiocarpon	England