

Appendix 2. Original fossil pollen data of Olduvai upper Bed I (Bonnefille, 1984) and relation between the fossil pollen taxa and present-day plant formations in the surroundings of Lake Manyara.

Pollen taxa (Bonnefille, 1984)	FLKN li	FLKa	Plant formation							
			Afro-montane	Thicket-woodland	Gallery forest	Acacia ground-water woodland	Ground-water forest	Swamp herbage	Alkaline grasslands	Other grasslands
Acanthaceae/ <i>Justicia odora</i> *		2		(1)	1	1				
Amaranthaceae/ <i>Achyranthes</i> *		18			1	1	1			
Amaranthaceae/ <i>Volkensinia prostrata</i> *		1								1
Amaranthaceae/ Chenopodiaceae	11	8	(1)	1	(1)	1	(1)	(1)	(1)	1
Burseraceae/ <i>Commiphora</i>		2		1						1
Capparidaceae/ <i>Gynandropsis</i> * <i>gynandra</i>	2			(1)		1				1
Capparidaceae	242			1	1	1				
Chenopodiaceae/ <i>Suaeda monoica</i>		5							(1)	
Combretaceae	20	1		1	(1)					
Commelinaceae/ <i>Commelina benghalensis</i>		2		(1)	(1)	1				
Compositae/ <i>Artemisia</i>		1	1							
Compositae/ <i>Hirpicium diffusum</i> *		8		(1)						
Compositae/ liguliflorae	1	2	(1)	(1)	(1)	1	(1)			(1)
Compositae/ tubuliflorae	1	14	(1)	(1)	(1)	1	(1)	(1)		(1)
Cupressaceae/ <i>Juniperus</i>	8	1	1							
Cyperaceae	37	38	(1)	(1)	(1)	(1)	1	1		(1)
Ebenaceae/ <i>Euclea</i>	1		(1)	(1)			1			
Euphorbiaceae/ <i>Acalypha</i>	3		(1)	1	(1)	1	(1)			(1)
Euphorbiaceae/ <i>Euphorbia</i> * <i>hypericifolia</i>		5		(1)						
Euphorbiaceae/ <i>Euphorbia</i> *	2	1	(1)	1		1				
Gramineae	235	110	(1)	1	(1)	1	(1)	1	1	1
Labiatae/ <i>Leucas</i> *		1	(1)	(1)		1				(1)
Mimosoideae/ <i>Acacia</i> group I	3	2	(1)	1	1	1	1			(1)
Monocotyledoneae	1									
Olacaceae/ <i>Ximenia</i>		15		1						
Palmae/ <i>Phoenix</i> *	1						1	1		
Papilionoideae/ <i>Ormocarpum</i> *	1									
Plantaginaceae/ <i>Plantago</i>		1	(1)							
Podocarpaceae/ <i>Podocarpus</i>	1	1	1							
Polygonaceae/ <i>Rumex</i>	1		(1)	(1)						
Portulacaceae	14			1		1				(1)
Rosaceae/ <i>Prunus africana</i> *	1		1							
Salvadoraceae/ <i>Salvadora</i>	5				(1)	1				
Solanaceae/ <i>Solanum</i>	1		(1)	(1)	1	1				
Solanaceae		1			1	1				
Typhaceae/ <i>Typha</i>	15	1						1		
Urticaceae	3		(1)	1			1			(1)
Unidentified	23	6								
Total	633	247								

Notes

Names of the plant formations (except afro-montane and other grasslands) are from Greenway and Vesey-Fitzgerald (1969). Relations between pollen taxa and plant formations were created using botanical relevés at Manyara Nat. Park (where noted "1") (Greenway and Vesey-Fitzgerald, 1969; Loth and Prins, 1986) and the African Pollen Database inventory (Vincens et al., 2007) where indicated by (1).