
POLLEN DATA FROM HONEY BEE VILLAGE, AZ BB:9:88 (ASM)

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2012 Pollen Data from Honey Bee Village, AZ BB:9:88 (ASM).
<<http://www.archaeologysouthwest.org/ap48>>.

Table 1. Proportional frequencies (percent of sum) of Honeybee pollens and other microflora and spores.

FN	Deteriorated	Sum	Tracers	Concentration (grains/cc)																												
				Cupressaceae	<i>Pinus</i>	<i>Parkinsonia</i>	<i>Prosopis</i>	<i>Quercus</i>	<i>Cereus</i>	<i>Acacia</i>	<i>Agave</i>	<i>Cylindropuntia biglovei</i>	<i>Cylindropuntia fulgida</i>	<i>Cylindropuntia</i> Undifferentiated	<i>Platyopuntia</i>	<i>Opuntia</i> Undifferentiated	<i>Ephedra</i>	<i>Fouquieria</i>	Rosaceae	<i>Rhus</i>	<i>Ambrosia</i>	<i>Artemisia</i>	<i>Cirsium</i>	Liguliflorae	Other Compositae	Chenopodiaceae, <i>Amaranthus</i>	<i>Tidestromia</i>	Gramineae	<i>Arceuthobium</i>	<i>Amicticlia</i>		
1513	16.1	301	43	97,377	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.7	5.7	0.0	0.0	0.0	39.5	28.1	1.3	0.7	0.0	0.0		
3093	10.7	300	73	57,168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	29.3	50.7	0.0	0.3	0.0	0.0		
4705	13.2	301	35	119,635	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	35.3	44.9	0.0	0.0	0.0	0.0		
6279	5.3	301	96	43,617	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	23.6	69.1	0.0	0.0	0.0	0.0	
7069	11.3	301	77	54,379	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	26.2	54.5	0.3	0.7	0.0	0.0	
7377	8.8	301	39	107,364	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	21.2	67.0	1.3	0.0	0.0	0.0	
7875	4.7	301	27	155,082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.3	54.5	34.9	0.0	0.3	0.0	0.0	
10545	7.9	301	54	77,541	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.3	0.0	0.0	49.2	35.6	0.0	0.0	0.0	0.0	
11205	9.6	301	27	155,082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	29.6	56.8	0.0	0.0	0.0	0.0	
11257	12.3	300	114	36,608	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	4.3	0.3	0.0	0.0	61.3	18.7	0.0	0.0	0.0	0.0	
1558	9.6	301	70	59,817	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	44.9	39.9	0.3	0.0	0.0	0.0	
1695	7.6	301	25	167,488	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	21.1	63.7	0.0	0.3	0.0	0.0	
1938	13.9	301	6	697,869	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.3	36.6	40.3	0.0	0.0	0.0	0.0	
4089	7.9	300	81	51,522	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.7	0.0	0.3	44.4	33.1	0.0	0.0	0.0	0.0	
6520	12.1	301	60	69,787	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	37.9	42.2	0.7	0.0	0.0	0.0	
6893	8.1	300	66	63,232	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	6.4	0.0	0.0	0.0	28.7	53.7	2.0	0.3	0.0	0.0	
7284	14.5	301	120	34,893	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	3.0	0.0	0.0	0.0	44.1	31.9	0.0	0.0	0.0	0.0	
10343	6.4	301	26	161,047	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	45.1	44.8	1.3	0.0	0.0	0.0	
10379	7.4	301	47	89,090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	45.8	42.1	0.7	0.0	0.0	0.0
11397	8.3	301	42	99,696	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	6.0	0.0	0.0	0.0	34.6	49.8	0.0	0.0	0.0	0.0
11721	7.0	301	136	30,788	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	6.0	0.0	0.0	0.0	41.4	41.1	0.0	0.0	0.0	0.0
11728	6.6	301	25	167,488	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	48.0	41.7	0.0	0.0	0.0	0.0	
317	8.7	301	73	57,359	0.0	1.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.7	0.0	0.0	5.9	0.0	0.0	0.0	45.3	32.2	4.2	0.3	0.0	0.3	
329	10.6	301	91	46,013	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	4.5	0.0	0.0	0.0	52.7	27.7	3.8	0.0	0.3	0.0	
562	7.6	301	90	46,525	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	53.0	33.8	0.3	0.0	0.0	0.0	
652	6.5	301	56	74,772	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	1.0	25.0	54.9	0.3	0.0	0.0	0.0
659	9.0	301	21	199,391	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	6.7	0.3	0.0	0.0	30.1	50.8	0.7	0.0	0.0	0.0	
1154	16.9	301	48	87,234	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	25.0	54.7	2.4	0.0	0.0	0.0	
1284	8.6	301	33	126,885	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	21.5	64.0	0.0	0.0	0.0	0.0	
1535	6.7	301	100	41,872	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	1.0	0.0	0.3	0.0	0.0	7.3	0.0	0.0	0.3	56.3	22.3	0.3	0.0	0.0	0.0	
1628	9.1	301	27	155,082	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	44.4	39.7	2.0	0.0	0.0	0.0	
1740	13.0	300	107	39,003	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.3	0.0	1.3	37.3	38.7	0.0	0.0	0.0	0.0	
1860	4.3	301	65	64,419	0.0																											

Table 1. Continued.

Table 1. Continued.

FN	Totals																																										
	<i>Urtica</i>	<i>Bonneria</i>	Fern	Moss	Marchantiaceae	Polyodiaceae	Algae	Other Fungal spores	Gloeosporium	<i>Clomus</i>	cf. <i>Hainesia</i>	Neurospora ribbed	<i>Sporormiella</i>	<i>Thecaphora</i>	<i>Tilletia</i>	Testate Amoeba	Charcoal	Arthropod Feces	Stomata	Cretaceous Fern	Paleogene Fern	Paleogene Tricolporate	Tertiary Type	Arcella	<i>Centropyxis</i>	<i>Coniochaeta</i>	<i>Cyclopyxis</i>	<i>Difflugia</i>	ct. <i>Euglypha</i>	<i>Phyrganella arcopodia</i>	Pollen Sum	Trees	Shrubs	Comps/Cheno-ams/Grass	Herbs	Riparian	Ferns and Allies	Algae	Fungi	Miscellaneous	Redeposited	Testate Amoeba	
1513	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1,115.7	0.3	0.0	0.0	0.0	0.0	3.7	0.0	0.3	1,322.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	299	17.4	1.7	73.9	7.0	0.0	0.0	0.7	1,121.1	1,325.1	0.0	2.0	
3093	0.0	0.0	0.0	0.0	0.3	0.0	0.0	457.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	528.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	300	10.7	0.0	88.3	1.0	0.0	0.3	0.0	458.0	530.0	0.0	0.7
4705	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,342.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1,354.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	13.5	0.7	82.8	3.0	0.0	0.0	0.0	1,342.2	1,355.1	0.0	0.0
6279	0.0	0.0	0.0	0.0	0.3	0.0	0.0	791.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.3	1,922.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	5.3	0.7	93.4	0.7	0.3	0.3	0.0	791.7	1,924.6	0.0	0.0
7069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,192.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,152.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	301	12.3	0.3	85.0	2.3	0.0	0.0	0.0	1,192.7	1,153.2	0.0	0.7
7377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	776.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,992.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	297	8.8	0.3	89.9	1.0	0.0	0.0	0.0	778.5	1,994.9	0.0	0.0
7875	0.0	0.0	0.0	0.0	0.0	0.0	0.0	862.8	0.0	0.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	1,128.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	5.0	0.3	91.0	3.7	0.0	0.0	0.0	863.8	1,128.6	0.0	0.0
10545	0.0	0.0	0.0	0.0	0.0	0.0	0.0	436.6	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.7	182.8	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	7.9	2.0	87.8	2.3	0.0	0.0	0.0	442.9	183.5	0.3	0.0
11205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	466.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	579.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	9.6	1.7	88.4	0.3	0.0	0.0	0.0	467.8	579.4	0.0	0.0
11257	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,293.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.7	1,100.7	1.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	13.0	0.7	84.7	1.7	0.0	0.0	0.0	1,294.3	1,103.0	0.3	0.0
1558	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,232.6	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	1,787.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	9.6	0.0	87.7	2.7	0.3	0.0	0.0	1,234.6	1,787.7	0.0	0.0
1695	0.0	0.0	0.0	0.0	0.0	0.0	0.3	574.3	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1,742.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	7.9	0.3	88.1	3.6	0.0	0.0	0.3	575.2	1,747.2	0.0	0.0
1938	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,975.6	0.0	0.3	0.0	0.0	0.0	0.7	0.0	0.0	0.0	2,279.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	13.9	1.7	81.8	2.6	0.0	0.0	0.0	1,976.6	2,291.7	0.0	0.0
4089	0.0	0.0	0.0	0.0	0.0	0.0	0.0	798.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.7	962.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	8.6	0.0	84.8	6.6	0.0	0.0	0.0	802.6	963.2	0.0	0.0
6520	0.0	0.0	0.0	0.0	0.0	0.3	0.0	61.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	1,166.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306	12.4	0.0	82.7	4.9	0.3	0.3	0.0	62.1	1,167.3	0.0	1.0
6893	0.0	0.0	0.0	0.0	0.0	0.0	0.0	936.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	669.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	296	8.1	1.0	89.2	1.7	0.0	0.0	0.0	938.9	670.6	0.0	0.3
7284	0.0	0.0	0.0	0.0	0.0	0.0	0.0	575.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	591.4	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	304	14.5	0.3	78.9	6.3	0.0	0.0	0.0	576.0	594.7	0.0</

Table 1. Continued.

FN	Deteriorated	Sum	Tracers	Concentration (grains/cc)																												
				Cupressaceae	<i>Pinus</i>	<i>Parkinsonia</i>	<i>Prosopis</i>	<i>Quercus</i>	<i>Cereus</i>	<i>Acacia</i>	<i>Agave</i>	<i>Cylindropuntia bigloveii</i>	<i>Cylindropuntia fulgida</i>	<i>Cylindropuntia Undifferentiated</i>	<i>Opuntia</i>	<i>Opuntia Undifferentiated</i>	<i>Ephedra</i>	<i>Fouquieria</i>	<i>Rosaceae</i>	<i>Rhus</i>	<i>Ambrosia</i>	<i>Artemisia</i>	<i>Cirsium</i>	<i>Liguliflorae</i>	Other Compositae	Chenopodiaceae, <i>Amaranthus</i>	<i>Tidestromia</i>	Gramineae	<i>Arcuothobium</i>	<i>Anisotrichia</i>		
4843	8.9	301	28	149,543	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	3.0	1.7	0.0	0.7	60.9	21.9	0.0	0.0	0.0			
5720	3.9	301	30	139,574	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	23.9	61.0	0.0	1.6	0.0	0.0		
5936	6.9	301	68	61,577	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.3	0.0	0.0	0.0	5.6	0.3	0.0	0.0	14.1	64.3	1.3	0.0	0.0	0.0		
6206	9.6	301	144	29,078	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	48.5	34.9	0.7	0.0	0.0	0.0		
7402	6.7	300	54	77,283	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.7	12.0	75.7	0.3	0.0	0.0	0.0	
7486	14.5	301	138	30,342	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.3	0.0	0.3	32.9	41.6	0.0	0.0	0.0	0.0		
8665	9.0	301	57	73,460	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	4.0	0.0	0.0	0.0	35.5	48.5	0.3	0.0	0.0	0.0	
9068	10.2	301	35	119,635	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	58.1	19.8	0.3	0.0	0.0	0.0		
9153	16.9	301	36	116,311	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.3	44.4	31.5	0.0	0.3	0.0	0.0		
9154	13.7	300	58	71,953	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	3.7	0.0	0.0	0.7	56.0	19.7	0.3	0.3	0.0	0.0	
9183	11.2	301	44	95,164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.3	0.0	0.0	58.4	24.4	0.0	0.0	0.0	0.0		
9226	8.3	301	37	113,168	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.3	0.0	0.0	71.9	15.6	0.0	0.0	0.0	0.0	
10044	10.4	301	43	97,377	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	63.9	21.1	0.7	0.0	0.0	0.0	
10286	7.6	301	76	55,095	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.3	0.0	0.0	26.6	50.2	0.0	0.0	0.0	0.0	
10308	6.6	301	74	56,584	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.3	0.0	0.0	43.5	37.9	0.0	0.0	0.0	0.0	
10908	14.7	301	46	91,026	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.3	53.7	26.0	0.3	0.7	0.0	0.0	
10994	4.0	301	11	380,656	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.3	0.0	0.7	46.2	40.5	0.3	0.0	0.0	0.0	
11077	7.3	301	27	155,082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	45.2	43.5	0.3	0.3	0.0	0.0	
11362	8.6	301	79	53,003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	4.9	0.0	0.0	0.0	36.8	46.7	0.0	0.0	0.0	0.0
11670	4.0	301	53	79,004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	37.3	54.8	0.0	0.0	0.0	0.0	
12437	8.7	300	76	54,912	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.3	56.2	30.1	0.7	0.0	0.0	0.0	
343	6.3	301	58	72,193	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	24.4	63.7	0.0	0.0	0.0	0.0	
350	14.0	300	60	69,555	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	27.7	52.3	0.0	0.0	0.0	0.0	
424	5.3	300	31	134,623	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.0	0.3	0.0	0.0	14.6	73.8	0.0	1.0	0.0	0.0	
527	6.9	300	89	46,891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	51.8	27.4	0.7	0.0	0.0	0.0	
5702	10.4	301	48	87,234	0.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.7	0.0	0.0	10.4	65.1	0.3	0.0	0.0	0.0	
5898	19.0	301	32	1,479	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.3	0.0	31.9	56.5	0.0	0.0	0.0	0.0	
847	14.3	301	153	27,367	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	35.4	39.6	0.0	0.0	0.0	0.0	
956	8.7	301	127	32,970	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	28.7	57.3	0.0	0.0	0.0	0.0	
973	16.9	301	98	42,727	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	52.5	25.6	0.0	0.3	0.0	0.0	
993	12.1	301	156	26,841	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	33.0	41.2	0.0	0.0	0.0	0.0	
1174	6.5	300	92	45,362	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	31.3	50.8	0.3	0.3	0.0	0.0	
1599	11.3	301	24	174,467	0.0	0.0</																										

Table 1. Continued.

Table 1. Continued.

FN	Stratigraphic Data (Strata)																				Biological Indicators										Geological Context											
	Urtica	Bonneria	Fern	Moss	Marchantiaceae	Polypondiaeae	Algae	Other Fungal spores	Gloeosporium	Glomus	cf. Hainesia	Neurospora ribbed	Sporormiella	Thecaphora	Tilletia	Testate Amoeba	Charcoal	Arthropod Feces	Stomata	Cretaceous Fern	Paleogene Fern	Paleogene Tricolporate	Tertiary Type	Arcella	Centropyxis	Coniochaeta	Cyclopixis	Difflugia	cf. Euglypha	Phraganella arcopodia	Pollen Sum	Trees	Shrubs	Comps/Cheno-ams/Grass	Herbs	Riparian	Ferns and Allies	Algae	Fungi	Miscellaneous	Redeposited	Testate Amoeba
4843	0.0	0.0	0.0	0.0	0.0	0.0	726.2	0.0	0.3	0.0	0.0	0.0	2.6	0.0	0.0	628.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	9.3	0.7	88.1	2.0	0.0	0.0	0.0	729.1	631.5	0.0	0.0
5720	0.0	0.0	0.0	0.0	0.0	0.0	876.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	581.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305	3.9	2.0	90.2	3.9	0.0	0.0	0.0	876.4	584.6	0.0	0.0
5936	0.0	0.0	0.0	0.0	0.0	0.0	862.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	949.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305	6.9	2.0	84.3	6.9	0.3	0.0	0.0	864.6	949.8	0.0	0.3
6206	0.0	0.0	0.0	0.0	0.0	0.0	542.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	237.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	10.0	0.3	86.4	3.3	0.0	0.0	0.0	543.5	238.2	0.0	0.3
7402	0.0	0.0	0.0	0.0	0.0	1.7	351.7	0.0	0.3	0.0	0.0	0.3	0.3	0.0	0.0	403.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	7.0	0.3	89.7	3.0	0.0	0.0	0.0	353.0	403.7	0.0	0.0
7486	0.0	0.0	0.0	0.0	0.0	0.0	796.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.9	639.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310	14.8	0.3	79.0	5.8	0.0	0.0	0.0	796.8	643.9	0.0	0.6
8665	0.0	0.0	0.0	0.3	0.0	0.0	1,149.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	2,319.3	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	9.0	0.7	88.0	2.3	0.0	0.3	0.0	1,150.2	2,334.2	0.0	1.7
9068	0.0	0.0	0.0	0.0	0.0	0.0	2,049.2	0.3	0.3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1,698.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	10.9	0.7	83.8	4.6	0.0	0.0	0.0	2,052.1	1,701.0	0.0	0.0
9153	0.0	0.0	0.0	0.3	0.0	0.0	267.2	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.7	1,109.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	17.2	0.0	80.5	2.3	0.0	0.3	0.0	270.5	1,110.6	0.0	0.3
9154	0.0	0.0	1.0	0.0	0.0	0.0	789.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	2,300.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	14.3	0.7	80.3	4.7	0.0	1.0	0.0	791.7	2,301.0	0.0	0.3
9183	0.0	0.0	0.0	0.0	0.0	0.0	1,842.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	5,365.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	11.2	0.3	85.5	3.0	0.0	0.0	0.0	1,843.9	5,365.7	0.0	0.0
9226	0.0	0.0	0.0	0.0	0.0	0.0	739.4	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	2,727.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	8.6	0.3	90.1	1.0	0.0	0.0	0.0	740.1	2,727.8	0.0	0.0
10044	0.0	0.0	0.0	0.0	0.0	0.0	684.9	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.3	2,520.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299	10.7	0.7	87.3	1.3	0.0	0.0	0.0	688.6	2,521.1	0.0	0.0
10286	0.0	0.0	0.0	0.0	0.0	0.0	760.8	0.0	0.7	0.0	0.0	0.0	0.0	2.7	0.0	0.3	480.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	10.3	0.3	86.7	2.7	0.0	0.0	0.0	764.1	480.4	0.0	0.0
10308	0.0	0.0	0.0	0.0	0.0	0.0	980.4	0.0	0.3	0.0	0.0	0.0	0.0	1.3	0.0	0.3	1,274.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	7.3	0.7	89.7	2.3	0.0	0.0	0.0	982.1	1,281.1	0.0	0.0
10908	0.0	0.0	0.0	0.0	0.0	0.3	1,416.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	4,929.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	15.3	0.3	83.7	0.7	0.0	0.0	0.0	1,417.3	4,929.7	0.0	0.0
10994	0.0	0.0	0.0	0.0	0.0	0.0	689.0	0.0	0.7	0.0	0.0	0.0	0.0	1.3	0.0	0.0	373.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	4.3	3.0	89.7	3.0	0.0	0.0	0.0	691.4	373.4	0.0	0.0
11077	0.0	0.0	0.0	0.0	0.0	0.0	1,174.4	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2,727.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	7.3	0.3	90.4	2.0	0.0	0.0	0.0	1,176.4	2,727.9	0.0	0.3
11362	0.0	0.0	0.0	0.0	0.0	0.0	2,333.2	0.0	0.3	0.0	0.0	0.0	0.0	0.7	0.0	0.7	1,283.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	304	8.6	0.7	88.5	2.3	0.0	0.0	0.0	2,334.2	1,284.2	0.0	0.7
11670	0.0	0.0	0.0	0.3	0.0	0.0	1,436.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	2,659.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	4.0	0.3	93.7	2.0	0.0	0.3	0.0	1,438.0	2,663.4	0.0	0.0
12437	0.0	0.3	0.0	0.0	0.0	0.0	1,348.2	0.0	0.3	0.0	0.0	0.0	0.0	4.0	0.0	0.0	543.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299	10.0	0.7	88.3	1.0	0.0	0.3	0.0	1,353.2	543.8	0.0	0.0
343	0.0	0.0	0.0	0.0	0.0	0.0	208.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	501.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	6.6	0.3	91.1	2.0	0.0	0.0	0.0	208.6	504.3	0.0	0.7
350	0.0	0.0	0.0	0.0	0.0	0.0	699.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	929.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	14.0	1.0	83.7	1.3	0.0	0.0	0.0	700.3	935.0	0.0	0.7
424	0.0	0.0	0.0	0.0	0.0	0.0	695.0	0.0	0.0	0.0	0.0																															

FN	Deteriorated	Sum	Tracers	Concentration (grains/cc)																													
				Cupressaceae	<i>Pinus</i>	<i>Parkinsonia</i>	<i>Prosopis</i>	<i>Quercus</i>	<i>Cereus</i>	<i>Acacia</i>	<i>Agave</i>	<i>Cylindropuntia biglovei</i>	<i>Cylindropuntia fulgida</i>	<i>Cylindropuntia</i> Undifferentiated	<i>Platyopuntia</i>	<i>Opuntia</i> Undifferentiated	<i>Ephedra</i>	<i>Fouquieria</i>	Rosaceae	<i>Rhus</i>	<i>Ambrosia</i>	<i>Artemisia</i>	<i>Cirsium</i>	Liguliflorae	Other Composite	Chenopodiaceae, <i>Amaranthus</i>	<i>Tidestromia</i>	Gramineae	<i>Arceuthobium</i>	<i>Anisotrichia</i>			
5399	10.3	301	62	67,536	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.3	0.0	0.0	28.1	53.6	0.3	0.0	0.0	0.0			
5439	6.6	301	66	63,443	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	24.3	65.1	0.0	0.0	0.0	0.0			
5764	7.6	301	36	116,311	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	3.0	0.0	0.0	0.0	14.9	72.2	0.0	0.0	0.0	0.0			
6059	8.7	301	45	93,049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.7	0.0	0.0	0.0	32.3	55.3	0.3	0.0	0.0	0.0			
6449	9.3	301	50	83,744	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	24.7	60.7	0.3	0.0	0.0	0.0			
6873	5.2	301	60	69,787	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	19.9	65.4	6.3	0.0	0.0	0.0			
6960	4.0	301	13	322,093	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	27.9	65.8	0.0	0.0	0.0	0.0			
7044	8.9	301	44	95,164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	34.1	53.6	0.0	0.0	0.0	0.0			
7429	7.0	301	101	41,458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.3	0.0	0.0	0.0	18.6	68.4	0.0	0.7	0.0	0.0	
7867	6.6	301	115	36,411	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	4.3	0.3	0.0	0.3	64.5	20.9	0.7	0.0	0.0	0.0		
8735	7.0	301	49	85,453	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	42.5	43.2	0.0	0.0	0.0	0.0		
8821	6.3	48	53	12,599	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	45.8	41.7	0.0	2.1	0.0	0.0	
8831	10.6	301	188	22,272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	48.5	36.3	0.0	0.0	0.0	0.0		
9106	10.0	301	49	85,453	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.3	54.8	32.2	0.0	0.0	0.0	0.0		
10676	9.6	301	77	54,379	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	31.6	46.2	0.3	0.0	0.0	0.0	
10881	10.4	301	62	67,536	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.3	0.0	0.7	52.5	23.7	1.0	0.3	0.0	0.0		
11613	7.0	301	34	123,153	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	4.3	0.0	0.0	0.0	55.0	29.5	0.0	0.0	0.0	0.0		
12347	5.9	301	40	104,680	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	74.2	13.1	0.7	0.0	0.0	0.0		
6420	7.3	301	37	113,168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.3	34.0	50.2	0.0	0.3	0.0	0.0		
6570	7.6	300	63	66,243	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	18.3	67.8	0.0	0.0	0.0	0.0
7654	9.6	301	55	76,131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	42.7	41.7	0.0	0.0	0.0	0.0	
487	16.2	300	76	54,912	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	40.4	33.1	0.0	0.0	0.0	0.0		
981	15.0	300	198	21,077	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	32.9	41.9	0.0	0.3	0.0	0.0	
1001	11.4	300	53	78,742	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.3	27.1	57.5	0.3	0.0	0.0	0.0		
3246	12.4	300	116	35,977	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.7	28.4	42.8	0.3	0.0	0.3	0.0		
5511	8.0	301	110	38,066	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	39.8	46.8	0.7	0.0	0.0	0.0		
5538	11.6	301	208	20,131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	24.6	56.1	0.0	0.0	0.0	0.0		
5562	11.1	301	92	45,513	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	39.9	35.0	0.0	0.0	0.0	0.0	
5658	7.5	301	65	64,419	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	28.4	57.2	0.0	0.0	0.0	0.0		
6852	9.9	301	95	44,076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.3	0.0	0.0	32.3	39.6	0.0	0.0	0.0	0.0		
8397	1.3	301	43	97,377	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.3	32.1	61.5	1.3	0.0	0.0	0.0		
8490	3.6	301	84	49,848	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	44.1	48.4	0.0	0.0	0.0	0.0		
11419																																	

Table 1. Continued.

FN	Pollen Data																				Totals																				
	<i>Urtica</i>	<i>Bonneria</i>	Fern	Moss	Marchantiaceae	Polyodiaceae	Algae	Other Fungal spores	Gloeosporium	<i>Clomus</i>	cf. <i>Hainesia</i>	Neurospora ribbed	<i>Sporormiella</i>	<i>Thecaphora</i>	<i>Tilletia</i>	Testate Amoeba	Charcoal	Arthropod Feces	Stomata	Cretaceous Fern	Paleogene Fern	Paleogene Tricolporate	Tertiary Type	Arcella	<i>Centropyxis</i>	<i>Coniochaeta</i>	<i>Cyclopyxis</i>	<i>Difflugia</i>	ct. <i>Euglypha</i>	<i>Phyrganella arcopodia</i>	Pollen Sum	Trees	Shrubs	Comps/Cheno-ams/Grass	Herbs	Riparian	Ferns and Allies	Algae	Fungi	Miscellaneous	Redeposited
5399	0.3	0.0	0.0	0.0	0.0	0.0	0.0	829.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	874.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	10.6	0.7	86.1	2.6	0.3	0.0	0.0	830.5	881.1	0.0	0.0
5439	0.0	0.0	0.0	0.0	0.0	0.0	0.0	728.9	0.0	0.3	0.0	0.0	0.0	2.0	0.3	0.0	724.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	7.3	0.0	92.0	0.7	0.0	0.0	0.0	731.6	724.6	0.0	0.0
5764	0.0	0.0	0.0	0.0	0.0	0.0	0.0	577.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	265.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	7.9	0.7	90.1	1.3	0.0	0.0	0.0	577.2	266.2	0.7	0.0
6059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	835.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	8.7	1.3	89.3	0.7	0.0	0.0	0.0	212.0	835.3	0.0	0.0
6449	0.0	0.0	0.0	0.0	0.0	0.0	0.0	260.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	834.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	9.3	1.3	87.7	1.7	0.0	0.0	0.0	261.0	835.3	0.0	0.0
6873	0.0	0.0	0.0	0.0	0.0	0.0	0.0	510.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	286	6.6	0.3	88.5	4.5	0.3	0.0	0.0	516.8	258.4	0.0	0.3
6960	0.0	0.0	0.0	0.0	0.3	0.0	0.0	325.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	701.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	4.0	0.0	95.3	0.7	0.0	0.3	0.0	325.6	705.0	0.0	0.3
7044	0.0	0.0	0.0	0.0	0.0	0.0	0.7	762.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	482.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	8.9	1.3	89.1	0.7	0.0	0.0	0.7	762.9	482.5	0.0	0.0
7429	0.3	0.0	0.3	0.0	0.0	0.0	0.0	822.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	644.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	7.0	1.0	91.0	1.0	0.3	0.3	0.0	822.9	645.2	0.0	0.3
7867	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,817.6	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.7	643.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	6.6	0.7	90.4	2.3	0.0	0.0	0.0	1,819.9	643.9	0.0	0.0
8735	0.0	0.0	0.3	0.0	0.0	0.0	0.0	806.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.7	980.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	7.0	1.3	90.7	1.0	0.0	0.3	0.0	806.3	981.4	0.0	0.7
8821	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,502.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,797.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42	6.3	2.1	91.7	0.0	0.0	0.0	0.0	4,502.1	21,797.9	0.0	4.2
8831	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1,665.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,002.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	10.6	0.7	86.5	2.3	0.0	0.3	0.0	1,665.7	3,002.6	0.0	0.0
9106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	753.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3,079.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	10.0	0.3	89.4	0.3	0.0	0.0	0.0	754.5	3,079.1	0.0	0.0
10676	0.0	0.0	0.0	0.0	0.0	0.0	0.0	478.7	0.0	1.0	0.0	0.0	0.0	3.3	0.3	0.7	531.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	10.3	2.0	85.7	2.0	0.0	0.0	0.0	483.7	538.2	0.0	0.0
10881	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,575.3	0.3	0.3	0.0	0.0	0.0	0.7	0.0	0.3	328.4	2.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299	10.7	0.3	85.3	3.7	0.0	0.0	0.0	1,577.6	331.4	0.3	0.0
11613	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.3	0.0	0.0	2,510.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	7.9	0.7	88.7	2.6	0.3	0.0	0.0	1.3	2,512.6	0.0	0.0
12347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	445.8	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.3	1,305.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306	6.2	0.0	87.9	5.9	0.0	0.0	0.0	447.4	1,305.9	0.0</	

Table 1. Continued.

FN	Deteriorated	Sum	Tracers	Concentration (grains/cc)																											
					Cupressaceae	<i>Pinus</i>	<i>Parkinsonia</i>	<i>Prosopis</i>	<i>Quercus</i>	<i>Cereus</i>	<i>Acacia</i>	<i>Agave</i>	<i>Cylindropuntia bigloveii</i>	<i>Cylindropuntia fulgida</i>	<i>Cylindropuntia Undifferentiated</i>	<i>Opuntia Undifferentiated</i>	<i>Ephedra</i>	<i>Fouquieria</i>	<i>Rosaceae</i>	<i>Rhus</i>	<i>Ambrosia</i>	<i>Artemisia</i>	<i>Cirsium</i>	<i>Liguliflorae</i>	<i>Other Compositae</i>	<i>Chenopodiaceae, Amaranthus</i>	<i>Tidestromia</i>	<i>Gramineae</i>	<i>Arcuothobium</i>	<i>Amsinckia</i>	
10122	6.7	300	61	68,415	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	4.7	0.0	0.3	0.0	45.3	40.7	0.0	0.7	0.0	0.0	
10168	10.7	301	41	102,127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	24.6	61.2	4.2	0.0	0.0	0.0	
10209	8.3	301	47	89,090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	45.7	38.1	0.3	0.7	0.0	0.0	
10257	4.0	301	27	155,082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.3	16.8	71.3	0.0	0.0	0.0	0.0
10469	9.0	300	87	47,969	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.3	0.0	0.0	3.3	0.0	0.0	0.0	37.2	47.5	0.0	0.0	0.0	0.0
11134	5.6	301	101	41,458	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	37.1	48.3	0.0	0.0	0.0	0.0
11938	15.0	300	134	31,144	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	34.0	43.3	0.7	0.0	0.0	0.0
12324	9.0	301	130	32,209	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	43.3	35.7	0.7	0.0	0.0	0.0
12359	5.0	301	78	53,682	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	47.0	43.3	0.3	0.0	0.0	0.0
10635	17.5	39	208	2,608	0.0	2.5	7.5	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.5	0.0	0.0	0.0	17.5	25.0	0.0	0.0	0.0	0.0
8734	5.0	301	245	17,091	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.3	32.9	54.2	1.0	0.7	0.0	0.0	
4606	6.8	176	119	20,574	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	38.1	38.6	0.0	4.5	0.0	0.0

Table 1. Continued.

Table 1. Continued.

FN	Counts																		Pollen Sum		Percent Pollen Sum		Ferns and Allies		Miscellaneous		Redeposited		Testate Amoeba		Totals								
	<i>Urtica</i>	<i>Bonneria</i>	Fern	Moss	Marchantiaceae	Polyopodiaceae	Algae	Other Fungal spores	Gloeosporium	<i>Glomus</i>	cf. <i>Hainesia</i>	<i>Neurospora</i> ribbed	<i>Spororniella</i>	<i>Thecaphora</i>	<i>Tilletia</i>	Testate Amoeba	Charcoal	Arthropod Feces	Stomata	Cretaceous Fern	Paleogene Fern	Paleogene Tricolporate	Tertiary Type	Arcella	<i>Centropyxis</i>	<i>Coniochaeta</i>	<i>Cyclonyxix</i>	<i>Difflugia</i>	cf. <i>Euglypha</i>	<i>Phyrganella arcopodina</i>	Trees	Shrubs	Comps/Cheno-ams/Grass	Herbs	Riparian	Algae	Fungi	Miscellaneous	Redeposited
10122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	787.7	0.0	1.0	0.0	0.0	0.0	0.7	0.0	1.0	620.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	300	6.7	1.0	91.7	0.7	1.0	0.0	0.0	789.3	622.0	0.0	1.0
10168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	793.8	0.0	0.3	0.0	0.0	0.0	1.7	0.0	0.3	988.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	289	10.7	0.3	88.6	0.3	0.0	0.0	0.0	800.0	989.6	0.0	0.0
10209	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1,948.7	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.3	2,224.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	302	8.3	0.0	89.4	2.3	0.0	0.0	1.0	1,951.7	2,224.5	0.0	0.0
10257	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.7	0.0	0.3	448.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303	4.0	0.3	91.4	4.3	0.0	0.0	0.0	1.0	449.2	0.0	0.0
10469	0.0	0.0	0.0	0.0	0.0	0.0	0.0	900.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.0	882.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	9.0	1.3	88.0	1.7	0.0	0.0	0.0	902.3	887.0	0.0	0.7
11134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,128.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1,198.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	302	6.6	0.7	90.7	2.0	0.0	0.0	0.0	1,129.1	1,199.0	0.0	0.7
11938	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1,318.0	0.0	1.0	0.0	0.0	0.0	1.7	0.7	1.0	3,154.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	15.3	0.3	80.3	4.0	0.0	0.3	0.0	1,322.0	3,163.7	0.0	0.0
12324	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,002.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	325.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	9.7	0.3	87.7	2.3	0.0	0.0	0.0	1,004.0	328.0	0.0	0.0
12359	0.0	0.0	0.0	0.0	0.0	0.0	0.0	991.7	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.3	584.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300	5.7	1.0	92.3	1.0	0.0	0.0	0.0	993.0	585.0	0.0	0.0
10635	0.0	0.0	0.0	0.0	0.0	0.0	0.0	770.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	40	45.0	0.0	50.0	5.0	0.0	0.0	770.0	270.0	0.0	2.5	
8734	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	301	5.0	0.0	92.4	2.7	1.3	0.0	0.0	123.9	63.8	0.0	0.0
4606	0.0	0.0	0.0	0.0	0.0	0.0	0.0	952.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,021.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176	6.8	1.1	88.6	3.4	4.0	0.0	0.0	952.3	2,021.0	0.0	0.0