



Supporting Online Material for

Decoupled Plant and Insect Diversity After the End-Cretaceous Extinction

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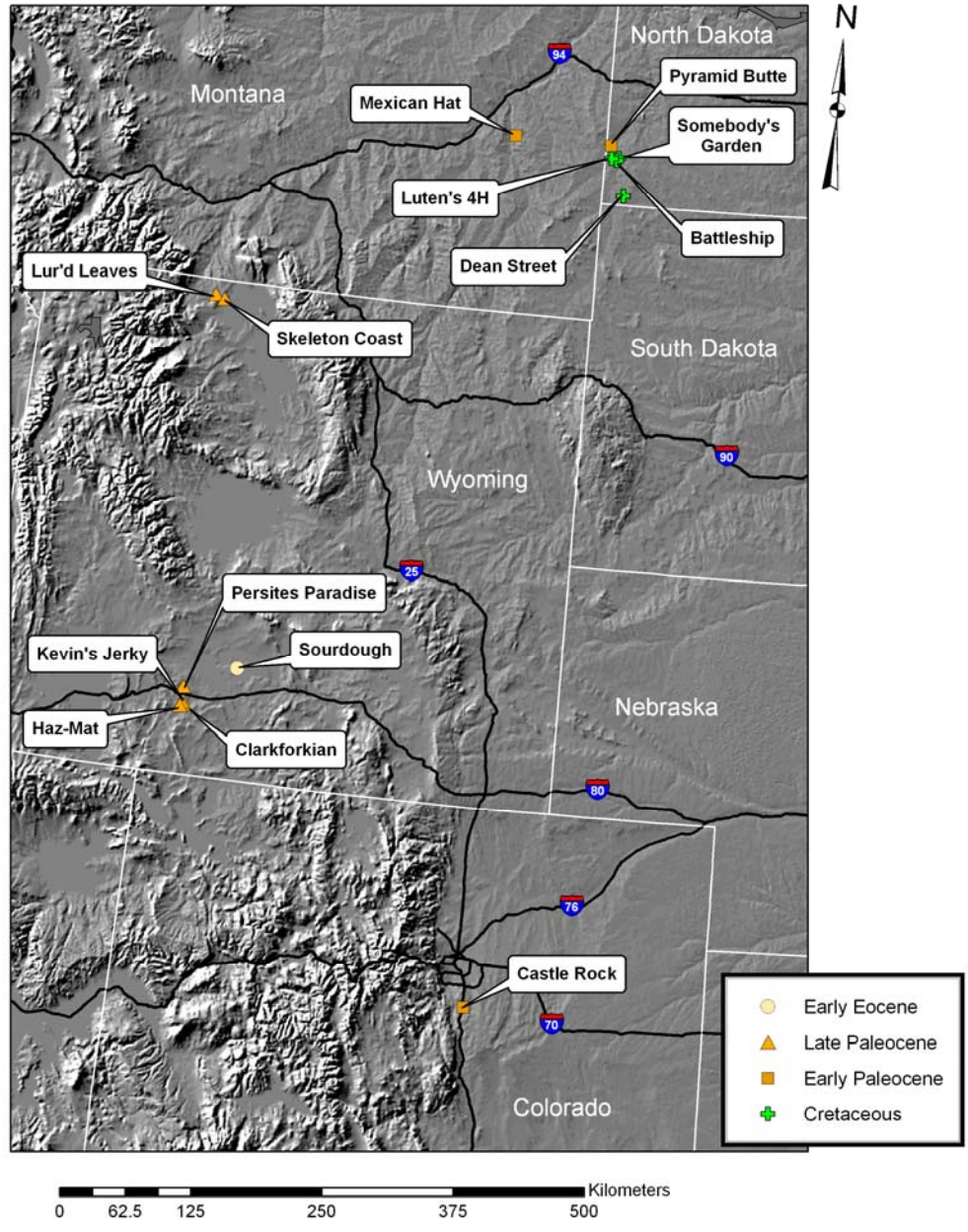
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Fig. S1. Map of megafloral sampling sites (Tables 1, S1).



Supporting Tables

Table S1. Additional data for bulk samples (see Table 1, Fig. S1); raw data not adjusted for sample size (see Fig. 2).

Sample	Repository	Location of principal quarry (°N,°W)	Lithologic unit, age references	Leaves damaged	DTs	Leaves mined	Mine DTs
Sourdough	USNM 41342, 41352	41.90911, 107.99513	Wasatch Fm., Ramsey Ranch Mbr. (S1)	276	23	7	3
Clarkforkian	USNM 41270, 41300	41.56576, 108.57653	Fort Union Fm. (S2, S3)	212	27	9	5
Lur'd Leaves	USNM 42042	44.87568, 108.87242	Fort Union Fm. (S3)	203	26	2	1
Skeleton Coast	USNM 42041	44.84884, 108.75471	Fort Union Fm. (S3)	291	19	2	1
<i>Persites</i> Paradise	USNM 41687	41.70833, 108.61979	Fort Union Fm. (S3)	323	22	0	0
Kevin's Jerky	USNM 41691	41.58254, 108.62390	Fort Union Fm. (S3)	398	24	0	0
Haz-Mat	USNM 41694	41.55360, 108.63454	Fort Union Fm. (S3)	277	18	3	1
Castle Rock lower layer	DMNH 2689, 2690, 2698, 2699, 2720, 2731, 2733, 2748	39.38333, 104.86007	D1 (S4)	142	24	2	2
Mexican Hat	USNM 42090	46.43139, 105.24117	Fort Union Fm., Lebo Mbr. (S5)	779	31	57	6
Pyramid Butte	DMNH 427	46.41856, 103.97671	Fort Union Fm., Ludlow Mbr. (S6)	135	17	3	2
Battleship	DMNH 900	46.32190, 103.86504	Hell Creek Fm. (S6)	154	30	28	5
Dean Street	DMNH 428, 88104	46.01857, 103.76504	Hell Creek Fm. (S6)	263	31	13	4
Somebody's Garden level	DMNH 567, 1491, 2202, 2203, 2204	46.29968, 103.89060	Hell Creek Fm. (S6)	569	34	10	6
Luten's 4H	DMNH 430, 1852,	46.31528,	Hell Creek Fm. (S6)	110	28	3	3
Hadrosaur level	86143, 86144, 86145, 87112	103.95972					

Notes: Mexican Hat's position within the Lebo Member is uncertain (S7), but Belt *et al.* (S5) published two radiometric ages for the member from nearby outcrops, which we average here (Table 1). Lang (S8) first noted insect mining at Mexican Hat, from a preliminary sample of *Zizyphoides flabella* leaves. Ages for the Haz-Mat through Clarkforkian samples are derived using their North American land mammal zonation and the revised geochronologic calibrations of late Paleocene land-mammal zones by Secord *et al.* (S3). Haz-Mat, Kevin's Jerky, and *Persites* Paradise are located at short stratigraphic distances (50 m or less) above Tiffanian-4 (Ti4) vertebrate localities (S9, S10) and at significantly greater, but unmeasured distances below Clarkforkian mammal localities. They are provisionally assigned to Ti4 due to the rarity of Ti5 mammals in this area. Skeleton Coast is located in the Southeast Polecat Bench Section, in zone Ti4a, as plotted by Secord *et al.* (S3). Lur'd Leaves is in the West Polecat Bench Section, 5 m below the Y2K mammal quarry of Secord *et al.* (S3), within zone Ti5b. Principal collectors: PW and CCL, USNM sites; BE, KRJ, R. Dunn, and M. Reynolds, Castle Rock; KRJ, all other DMNH sites.

Table S2. Supporting abundance and insect-damage data for leaf species with 25 or more specimens at a site; raw data not adjusted for sample size. See references in Table 1 and citations therein for botanical nomenclature.

Species	Affinity	Specimens	Damaged	DTs	Mined	Mine DTs
Sourdough						
<i>Alnus</i> sp.	Betulaceae	286	131	19	5	2
Apocynaceae sp. RR17	Apocynaceae	223	39	9	0	0
<i>Hovenia</i> cf. <i>H. oregonensis</i>	Rhamnaceae	63	26	7	0	0
<i>Populus wyomingiana</i>	Salicaceae	37	13	8	0	0
<i>Sloanea</i> sp.	Elaeocarpaceae	58	14	5	0	0
Clarkforkian						
" <i>Ampelopsis</i> " <i>acerifolia</i>	?Cercidiphyllaceae	81	20	9	1	1
<i>Corylites</i> sp.	Betulaceae	524	166	18	7	3
Lauraceae sp. FW3	Lauraceae	84	7	5	0	0
Magnoliaceae sp. FW7	Magnoliaceae	27	8	5	0	0
Lur'd Leaves						
" <i>Ampelopsis</i> " <i>acerifolia</i>	?Cercidiphyllaceae	139	32	9	0	0
" <i>Eucommia</i> " <i>serrata</i>	Cornales	81	39	17	2	1
<i>Cercidiphyllum genetrrix</i>	Cercidiphyllaceae	34	7	6	0	0
<i>Davidia antiqua</i>	Cornales	29	9	5	0	0
<i>Persites argutus</i>	Lauraceae	763	73	14	0	0
<i>Platanus raynoldsi</i>	Platanaceae	47	12	6	0	0
<i>Zizyphoides flabella</i>	Trochodendraceae	205	20	9	0	0
Skeleton Coast						
" <i>Eucommia</i> " <i>serrata</i>	Cornales	179	88	9	0	0
<i>Cercidiphyllum genetrrix</i>	Cercidiphyllaceae	530	150	16	2	1
<i>Platanus raynoldsi</i>	Platanaceae	57	19	7	0	0
dicot sp. SC1	unknown	48	23	9	0	0
Persites Paradise						
<i>Cercidiphyllum genetrrix</i>	Cercidiphyllaceae	36	13	6	0	0
<i>Corylites</i> sp.	Betulaceae	296	179	19	0	0
<i>Persites argutus</i>	Lauraceae	582	107	12	0	0
Kevin's Jerky						
<i>Averrhoites affinis</i>	?Sapindales	893	272	19	0	0
<i>Beringiaphyllum cupanioides</i>	Cornales	272	95	18	0	0
<i>Celtis aspera</i>	Celtidaceae	148	31	8	0	0
Haz-Mat						
<i>Cercidiphyllum genetrrix</i>	Cercidiphyllaceae	568	237	18	3	1
<i>Juglandiphyllites glabra</i>	Juglandaceae	78	12	4	0	0
<i>Platanus raynoldsi</i>	Platanaceae	102	27	10	0	0
Castle Rock lower layer						
dicot sp. CR043	?Lauraceae	225	10	9	0	0
dicot sp. CR013	unknown	224	6	6	0	0
dicot sp. CR023	unknown	126	6	3	0	0
" <i>Artocarpus</i> " <i>lessigiana</i>	?Lauraceae	123	8	6	0	0
dicot sp. CR167	Cornaceae	120	13	8	0	0
dicot sp. CR006	unknown	98	0	0	0	0
dicot sp. CR018	Rhamnaceae	79	8	7	0	0

dicot sp. CR005	?Juglandaceae	72	1	2	0	0
<i>Platanites marginata</i>	Platanaceae	68	5	4	0	0
dicot sp. CR033	unknown	67	0	0	0	0
" <i>Zizyphus</i> " <i>fibrillosus</i>	?Piperaceae	57	3	6	0	0
dicot sp. CR042	unknown	54	4	7	0	0
dicot sp. CR059	unknown	48	2	4	1	1
dicot sp. CR074	unknown	46	4	6	0	0
dicot sp. CR058	unknown	43	3	3	0	0
dicot sp. CR017	?Lauraceae	35	1	1	0	0
dicot sp. CR116	unknown	33	0	0	0	0
dicot sp. CR070	unknown	31	2	2	0	0
dicot sp. CR087	unknown	28	3	4	0	0
cf. <i>Sassafras</i> sp. CR010	Lauraceae	28	5	5	0	0
dicot sp. CR092	?Juglandaceae	27	3	2	0	0
dicot sp. CR032	unknown	26	1	1	0	0
Mexican Hat						
<i>Cercidiphyllum genatrix</i>	Cercidiphyllaceae	214	85	17	3	2
<i>Juglandiphyllites glabra</i>	Juglandaceae	393	74	19	4	3
Lauraceae sp. MHL2	Lurales	87	31	16	0	0
<i>Platanus raynoldsi</i>	Platanaceae	1174	442	27	41	3
" <i>Populus</i> " <i>nebrascensis</i>	Trochodendrales	84	30	14	1	1
<i>Zizyphoides flabella</i>	Trochodendraceae	230	98	18	7	2
Pyramid Butte						
<i>Paranymphaea crassifolia</i>	?Nymphaeales	62	12	10	0	0
" <i>Populus</i> " <i>nebrascensis</i>	Trochodendrales	211	37	9	2	1
" <i>Eucommia</i> " <i>serrata</i>	Cornales	204	64	14	0	0
Battleship						
<i>Grewiopsis saportana</i>	Platanaceae	33	18	14	2	1
<i>Marmarthia pearsonii</i>	Lauraceae	182	43	16	18	1
Dean Street						
<i>Platanites marginata</i>	Platanaceae	46	24	12	0	0
<i>Grewiopsis saportana</i>	Platanaceae	28	22	13	1	1
" <i>Ficus</i> " <i>planicostata</i>	Lurales	27	17	12	1	1
<i>Marmarthia trivialis</i>	Lauraceae	74	34	19	0	0
<i>Marmarthia pearsonii</i>	Lauraceae	36	14	11	5	3
<i>Liriodendrites bradacii</i>	Magnoliales	116	22	10	0	0
" <i>Zizyphus</i> " <i>fibrillosus</i>	?Piperaceae	41	10	7	0	0
" <i>Artocarpus</i> " <i>lessigiana</i>	?Lauraceae	40	11	7	0	0
dicot sp. HC199	Lurales	88	33	14	3	1
dicot sp. HC280	unknown	28	16	7	0	0
Somebody's Garden						
Rosaceae sp. HC080	Rosaceae	212	25	10	1	1
Urticales sp. HC081	Urticales	464	188	12	1	1
dicot sp. HC084	Lurales	53	18	6	0	0
<i>Leopierceia preartocarpoides</i>	Platanaceae	32	19	7	0	0
dicot sp. HC090	unknown	51	5	3	0	0
" <i>Cinnamomum</i> " <i>lineafolia</i>	Trochodendrales	163	45	19	0	0
dicot sp. HC131	unknown	32	8	5	0	0
dicot sp. HC135	unknown	102	89	11	0	0
dicot sp. HC211	unknown	39	15	4	0	0

<i>Cercidiphyllum ellipticum</i>	Cercidiphyllaceae	94	54	24	8	4
dicot sp. HC224	Rosidae	28	11	5	0	0
Ranunculaceae sp. HC226	Ranunculaceae	26	5	3	0	0
Cercidiphyllaceae sp. HC229	Cercidiphyllaceae	91	41	8	0	0
Luten's 4H Hadrosaur						
" <i>Dryophyllum</i> " <i>subfalcatum</i>	unknown	204	32	14	1	1
<i>Leepierceia preartocarpoides</i>	Platanaceae	100	23	12	0	0
aff. <i>Cercidiphyllum</i>	Trochodendrales	27	1	1	0	0
<i>Cercidiphyllum ellipticum</i>	<i>Cercidiphyllaceae</i>	29	23	12	1	1

Table S3. Abundance data for locally rare leaf species not cited in Table S2. See references in Table 1 and citations therein for botanical nomenclature.

Species	Specimens
Sourdough	
<i>Allophylus flexifolia</i>	24
<i>Dombeya novi-mundi</i>	22
<i>Cinnamomophyllum</i> sp. RR19	20
dicot sp. RR37	14
dicot sp. RR57	12
<i>Platycarya americana</i>	9
dicot sp. RR48 ("Dicot XXXVI")	6
<i>Syzygioides americana</i>	3
dicot sp. RR88	3
Lauraceae sp. RR46	3
dicot sp. RR95	2
dicot sp. RR31	2
<i>Stillingia casca</i>	1
cf. <i>Schoepfia republicensis</i>	1
dicot sp. RR94	1
dicot sp. RR63	1
cf. Magnoliales sp. RR12	1
Clarkforkian	
<i>Cornus hyperborea</i>	16
<i>Persites argutus</i>	12
cf. <i>Vinea pugetensis</i>	2
<i>Ternstroemites aureavallis</i>	1
aff. <i>Davidia antiqua</i>	1
Cercidiphyllaceae sp.	1
Lur'd Leaves	
" <i>Ficus</i> " <i>artocarpoides</i>	23
<i>Celtis peracuminata</i>	20
<i>Aesculus hickeyi</i>	9
<i>Chaetoptelea microphylla</i>	4
Lauraceae sp. LLL2	3
Lauraceae sp. LLL1	1
dicot sp. LL1	1
<i>Beringiaphyllum cupanioides</i>	1
Skeleton Coast	
<i>Davidia antiqua</i>	12
Juglandaceae sp.	8
dicot sp. SC1	1
Persites Paradise	
dicot sp. FW47	17
<i>Cornus hyperborea</i>	13
<i>Aesculus hickeyi</i>	7

<i>Celtis aspera</i>	4
" <i>Ampelopsis</i> " <i>acerifolia</i>	4
<i>Juglandiphyllites glabra</i>	3
Lauraceae sp. PPL1	1

Kevin's Jerky

dicot sp. KJ3	3
dicot sp. KJ4	1
dicot sp. KJ2	1
dicot sp. KJ1	1

Haz-Mat

dicot sp. HM1	1
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Castle Rock lower layer

dicot sp. CR024	22
dicot sp. CR184	21
dicot sp. CR150	20
dicot sp. CR080	20
dicot sp. CR029	18
dicot sp. CR025	18
dicot sp. CR154	17
Tiliaceae sp. CR016	17
dicot sp. CR001	16
dicot sp. CR200	15
dicot sp. CR155	15
dicot sp. CR037	15
dicot sp. CR151	12
dicot sp. CR140	12
dicot sp. CR102	12
dicot sp. CR054	11
dicot sp. CR194	10
dicot sp. CR190	10
dicot sp. CR168	10
dicot sp. CR121	10
dicot sp. CR077	10
dicot sp. CR039	10
dicot sp. CR189	9
dicot sp. CR141	9
dicot sp. CR066	9
dicot sp. CR152	8
dicot sp. CR145	8
dicot sp. CR091	8
dicot sp. CR052	8
dicot sp. CR183	7
dicot sp. CR182	7
dicot sp. CR118	7
dicot sp. CR110	7
dicot sp. CR086	7
dicot sp. CR030	7

dicot sp. CR009	7
dicot sp. CR186	6
dicot sp. CR178	6
dicot sp. CR163	6
dicot sp. CR128	6
dicot sp. CR111	6
dicot sp. CR081	6
dicot sp. CR026	6
dicot sp. CR187	5
dicot sp. CR165	5
dicot sp. CR156	5
dicot sp. CR114	5
dicot sp. CR109	5
dicot sp. CR108	5
dicot sp. CR072	5
dicot sp. CR062	5
dicot sp. CR061	5
dicot sp. CR051	5
dicot sp. CR035	5
dicot sp. CR031	5
dicot sp. CR195	4
dicot sp. CR181	4
dicot sp. CR175	4
dicot sp. CR137	4
dicot sp. CR123	4
dicot sp. CR120	4
dicot sp. CR119	4
dicot sp. CR038	4
dicot sp. CR022	4
Sterculiaceae sp. CR008	4
dicot sp. CR007	4
dicot sp. CR207	3
dicot sp. CR205	3
dicot sp. CR203	3
dicot sp. CR173	3
dicot sp. CR164	3
dicot sp. CR065	3
dicot sp. CR034	3
Urticaceae sp. CR019	3
dicot sp. CR191	2
dicot sp. CR177	2
dicot sp. CR174	2
dicot sp. CR170	2
dicot sp. CR158	2
dicot sp. CR153	2
dicot sp. CR148	2
dicot sp. CR139	2
dicot sp. CR136	2
dicot sp. CR084	2
dicot sp. CR071	2

dicot sp. CR068	2
dicot sp. CR064	2
dicot sp. CR063	2
dicot sp. CR060	2
dicot sp. CR040	2
dicot sp. CR036	2
dicot sp. CR014	2
dicot sp. CR206	1
dicot sp. CR204	1
dicot sp. CR198	1
dicot sp. CR196	1
dicot sp. CR192	1
dicot sp. CR188	1
dicot sp. CR185	1
dicot sp. CR161	1
dicot sp. CR159	1
dicot sp. CR135	1
dicot sp. CR126	1
dicot sp. CR083	1
dicot sp. CR073	1
dicot sp. CR069	1
dicot sp. CR028	1
Fabaceae sp. CR002	1

Mexican Hat

<i>"Eucommia" serrata</i>	12
dicot sp. MH1	11
<i>"Ficus" artocarpoides</i>	4
<i>Temstroemites aureavallis</i>	2
<i>Paleonelumbo macroloba</i>	2
Lauraceae sp. MHL1	2
<i>Paranymphaea crassifolia</i>	1
dicot sp. MH4	1
dicot sp. MH3	1
dicot sp. MH2	1

Pyramid Butte

dicot sp. FU065	17
Platanaceae sp. HC140	11
dicot sp. FU035	7
<i>Penosphyllum cordatum</i>	6
<i>Cornophyllum newberryi</i>	6
dicot sp. FU060	3
<i>Platanus raynoldsi</i>	3
dicot sp. FU094	2
dicot sp. FU072	2
Platanaceae sp. FU063	2
Flacourtiaceae sp. FU049	2
dicot sp. FU040	2
Dilleniidae sp. FU019	2

Flacourtiaceae sp. FU074	1
dicot sp. FU073	1
dicot sp. FU070	1
dicot sp. FU069	1
dicot sp. FU064	1
<i>Nelumbium montanum</i>	1
dicot sp. FU039	1

Battleship

<i>Marmartha trivialis</i>	24
" <i>Rhamnus</i> " <i>cleburni</i>	23
Platanaceae sp. HC329	22
dicot sp. HC264	18
<i>Liriodendrites bradacii</i>	15
" <i>Ficus</i> " <i>planicostata</i>	15
Lurales sp. HC265	14
dicot sp. HC280	13
Platanaceae sp. HC330	9
" <i>Dryophyllum</i> " <i>subfalcatum</i>	9
dicot sp. HC043	9
aff. <i>Liriodendron</i> , HC208	8
Rhamnaceae sp. HC261	7
<i>Trochodendroides nebrascensis</i>	7
<i>Paranymphaea hastata</i>	6
<i>Platanites marginata</i>	6
dicot sp. HC263	5
" <i>Zizyphus</i> " <i>fibrillosus</i>	4
Rosidae sp. HC047	4
dicot sp. HC065	3
dicot sp. HC278	2
dicot sp. HC277	2
<i>Erlingdorgia montana</i>	2
" <i>Vitis</i> " <i>stantonii</i>	2
<i>Penosphyllum cordatum</i>	2
dicot sp. HC336	1
dicot sp. HC335	1
dicot sp. HC334	1
dicot sp. HC333	1
dicot sp. HC332	1
dicot sp. HC331	1
dicot sp. HC295	1
Platanaceae sp. HC284	1
<i>Cissites lobata</i>	1
dicot sp. HC066	1
dicot sp. HC027	1
dicot sp. HC003	1
<i>Harmsia hydrocotyloidea</i>	1

Dean Street

dicot sp. HC169	20
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<i>Paranymphea hastata</i>	19
cf. " <i>Dryophyllum</i> " <i>tenneseensis</i>	14
<i>Cissites puilosokensis</i>	13
Ulmaceae sp. HC036	12
dicot sp. HC321	11
Rhamnaceae sp. HC261	10
<i>Cercidiphyllum ellipticum</i>	8
Magnoliaceae sp. HC203	7
<i>Nelumbium montanum</i>	7
dicot sp. HC343	6
<i>Bisonia niemii</i>	6
<i>Nelumbo</i> sp. HC202	5
dicot sp. HC182	5
" <i>Rhamnus</i> " <i>cleburni</i>	5
dicot sp. HC264	4
Dilleniidae sp. HC354	3
dicot sp. HC286	3
<i>Cissites lobata</i>	3
cf. <i>Cissites acerifolia</i>	3
Rosidae sp. HC047	3
dicot sp. HC043	3
dicot sp. HC363	2
dicot sp. HC358	2
Cercidiphyllaceae sp. HC355	2
" <i>Myrica</i> " <i>torreyi</i>	2
dicot sp. HC187	2
<i>Trochodendroides nebrascensis</i>	2
" <i>Dryophyllum</i> " <i>subfalcatum</i>	2
dicot sp. HC364	1
dicot sp. HC362	1
dicot sp. HC360	1
dicot sp. HC359	1
dicot sp. HC357	1
dicot sp. HC356	1
dicot sp. HC353	1
dicot sp. HC352	1
dicot sp. HC351	1
dicot sp. HC350	1
dicot sp. HC349	1
dicot sp. HC348	1
dicot sp. HC347	1
dicot sp. HC346	1
dicot sp. HC345	1
dicot sp. HC342	1
dicot sp. HC340	1
dicot sp. HC295	1
dicot sp. HC294	1
dicot sp. HC293	1
Laurales sp. HC292	1
Laurales sp. HC283	1

dicot sp. HC278	1
Laurales sp. HC265	1
dicot sp. HC254	1
dicot sp. HC207	1
dicot sp. HC204	1
aff. " <i>Vitis</i> " <i>stantonii</i>	1
<i>Cissites insignis</i>	1
dicot sp. HC185	1
cf. Saururaceae sp. HC183	1
dicot sp. HC090	1
dicot sp. HC066	1
dicot sp. HC003	1
<i>Penosphyllum cordatum</i>	1

Somebody's Garden

" <i>Celastrus</i> " <i>taurenensis</i>	21
Trochodendrales sp. HC073	18
Rosidae sp. HC132	17
Urticaceae sp. HC228	16
Platanaceae sp. HC140	11
Cannabaceae sp. HC225	8
Rosidae sp. HC233	6
Chloranthaceae sp. HC088	6
<i>Erlingdorgia montana</i>	3
" <i>Dryophyllum</i> " <i>subfalcatum</i>	3
Rosidae sp. HC232	2
Platanaceae sp. HC213	2
dicot sp. HC136	2
dicot sp. HC091	2
Laurales sp. HC087	2
dicot sp. HC027	2
dicot sp. HC300	1
Rosidae sp. HC246	1
Rosidae HC234	1
dicot sp. HC231	1
dicot sp. HC230	1
Ranunculidae sp. HC227	1
dicot sp. HC223	1
dicot sp. HC217	1
dicot sp. HC216	1
dicot sp. HC214	1
Rosidae sp. HC142	1
dicot sp. HC141	1
Rosidae sp. HC138	1
Platanaceae sp. HC099	1
Urticaceae sp. HC093	1
dicot sp. HC085	1
" <i>Vitis</i> " <i>stantonii</i>	1

Luten's 4H Hadrosaur

<i>Zizyphoides flabella</i>	12
<i>Trochodendroides nebrascensis</i>	7
" <i>Cinnamomum</i> " <i>lineafolia</i>	6
Platanaceae sp. HC099	5
Trochodendrales sp. HC073	5
dicot sp. HC066	4
<i>Erlingdorgia montana</i>	4
dicot sp. HC027	4
dicot sp. HC268	3
" <i>Celastrus</i> " <i>taurenensis</i>	3
dicot sp. HC155	2
cf. <i>Cissites acerifolia</i>	2
" <i>Vitis</i> " <i>stantonii</i>	2
dicot sp. HC366	1
dicot sp. HC365	1
dicot sp. HC161	1
dicot sp. HC159	1
dicot sp. HC158	1
dicot sp. HC141	1
dicot sp. HC085	1
Rosaceae sp. HC080	1
dicot sp. HC056	1

Table S4. Supplemental megafloral samples not meeting all criteria outlined in text.

Sample	Age (Ma)	Repository	Location, references	Leaf specimens	Leaf species	Leaves damaged	DTs	Leaves mined	Mine DTs
Sourdough, additional*	53.5	USNM, multiple sites	Tables 1, S1 (<i>S11</i>)	>4000	44	n.a.	33	n.a.	5
Clarkforkian, additional*†	56.5	USNM, multiple sites	Tables 1, S1 (<i>S11</i>)	>4000	37	n.a.	32	n.a.	5
Castle Rock, additional*†	63.8	DMNH, multiple sites	Tables 1, S1	772	116	152	21	0	0
Scotty's Palm*‡	65.2	DMNH 1204	Denver Basin, CO (<i>S12</i>)	346	28	83	20	3	2
Fossil Amphitheater‡	65.2	DMNH 2543	Denver Basin, CO (<i>S13</i>)	377	7	120	16	0	0
Early Paleocene ND, additional*†	65.5-64.7	DMNH and YPM, multiple sites	Tables 1, S1	1934	48	384	26	2	1
Latest Cretaceous ND, additional*†	66.9-65.5	DMNH and YPM, multiple sites	Tables 1, S1	4190	188	1126	44	28	8
Doughnut Feast*‡	68	DMNH 2302	Denver Basin, CO (<i>S12</i>)	312	18	136	23	61	4

Notes: Only identified, non-monocot angiosperm leaves that were scored for insect damage and not cited in Table 1 are included above; thus, specimen and species counts vary here from previously published numbers. Denver Basin insect damage data are not previously published. Scotty's Palm is considered similar to Castle Rock in having moderate floral diversity, rainforest characteristics, and location near the Front Range (*S12*). Fossil Amphitheater is located in the eastern Denver Basin, outside the humid belt; its floral composition and low diversity show a strong affinity to coeval North Dakota floras (*S13*). Principal collectors: KRJ and K. Werth, Doughnut Feast; KRJ, all ND sites; R. Barclay, Fossil Amphitheater; J. Thomasson, Scotty's Palm; BE, KRJ, R. Dunn, and M. Reynolds, Castle Rock; PW, Clarkforkian and Sourdough.

Reasons for excluding samples from the main analysis (Figs. 2, 3) are indicated with footnotes below.

*Collected selectively, e.g., not censused for plants and insect damage concurrently. Scotty's Palm was collected extremely selectively.

†Multiple stratigraphic levels included and/or insufficient sample size at any single level.

‡Sample size below cutoff of 400 leaves.

Supporting References

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